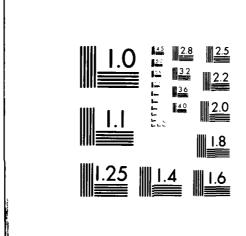
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# **THESIS**

MANAGEMENT ADVISORY SERVICES BY CPA'S; A SURVEY OF CURRENT EXPANSION OF SOLE PROPRIETOR PROFESSIONAL PRACTICE UNITS

bу

David George Hickman

December 1981

Thesis Advisor:

R. A. Bobulinski

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Management Advisory Services by CPAs; a Survey of Current Expansion of Sole Proprietor Professional Practice Units

by

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B.S., School of Architecture, Ohio State University, 1973

Submitted in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE IN MANAGEMENT

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#### ABSTRACT

This thesis is about Management Advisory Services (MAS) and issues associated with both current and future practice expansion efforts of sole proprietor Certified Public Accountant (CPA) firms. The sphere of MAS is described with emphasis placed on the CPA and his or her expanding role in delivery of professional management consultative services. A review of the MAS operating environment, various services, knowledge factors and internal CPA firm organizational aspects, provides a comparative basis for the reader's understanding of MAS pursuits by sole proprietor CPA practitioners.

The research was conducted through a survey and interviews with State of California CPA practitioners for the purpose of identifying practice trends and the professional's desire to expand current services. The survey results are presented relative to specific directions of MAS and a number of conclusions are made such as the need for firm specialization, client education, public advertizing and enhancement of knowledge skills and areas where more detailed study is required.

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### I. INTRODUCTION

#### A. NEED FOR MANAGEMENT CONSULTANTS

Because of the complex nature of many organizations and their associated operating environments, managers have found themselves inadequately equipped to completely handle a wide range of specialized organizational problems. [Ref.l] In an effort to confront and solve specialized problems, many organizations have sought help from professionals outside of the organizational structure. Professionals typically called upon to act in an advisory capacity to management, possess unique skills and represent diverse disciplines not normally found internal to a respective organization. These "external specialists" include economists, marketing experts, engineers, organizational behavioralists, certified public accountants and others, who are prepared by formal training and in depth experience, to provide information and guidance on all phases of organizational activities.

One specific professional discipline, which has historically provided a response to the external advice requirements of organizations, has been that of accounting. Professional accountants, specifically certified public accountants (CPAs), have fulfilled the external "financial expert" needs of management through provision of "traditional" accounting services such as independent audits, credible

income tax work and the development of meaningful financial reporting/control systems. Although the services of CPAs have pertained to issues largely financial in nature, increased organizational mandates for external advice related to non-financial matters, coupled with the profession's reputation for independence and competent skills, have placed increased expectations on the accounting profession to expand the scope of services normally provided. [Ref. 2]

#### B. THE CPA AS A MANAGEMENT ADVISOR

In response to management's increased demand for external "consulting", many public accounting firms have expanded the range of their professional services. [Ref.2] Some accounting firms now offer a broad range of "management advisory services" (MAS) to their clients. Those CPA firms that provide MAS have extended their normal accounting services into operational management areas such as budget development, cost analysis, system designs and office procedures. [Ref.3] The intent of MAS, as offered by CPAs, is to improve a client organization's capabilities and resources in order to achieve desired objectives.

Not all CPA firms currently offer management advisory services. [Ref.4] The reasons may vary, but in general some firms have chosen not to offer MAS to their clients because of insufficient staffing, specialized training or an understanding of complete service requirements. Public

accounting firms that have ventured into areas of MAS have found it to be rewarding and beneficial to the clients they serve. The accounting profession as a whole has also benefited from the offering of MAS by increased professional recognition and prestige. [Ref. 4]

#### C. LIMITED RANGE OF SOLE PROPRIETOR CPA SERVICES

While a student in the Financial Management Curriculum at the Naval Postgraduate School, Monterey California, the author of this thesis became more aware of the various organizational needs pertaining to external management advice. During a review of the methods and identification of providers of management consultative input, the author realized that although in general, the public accounting profession provides a wide range of expert management advice to organizations, sole proprietor CPA firms in particular, tend to limit their management advisory activities or not offer the services at all. [Ref.2]

Sole proprietor CPA firms that either limit the scope of MAS or do not offer the services at all, reduce additional opportunities for service to management which might otherwise potentially help increase profits and/or efficiency of the client organizations in need of the professional accountant's advice. [Ref.5] Sole proprietor CPA firms which do not formally advise management in operational or administrative functions of the organization, may not only do a disservice to their clients, but also to the CPA firm

itself by missing out on profitable organizational activity growth and enhanced professional stature.

#### D. RESEARCH OBJECTIVE

An overview of current accounting literature, as well as indepth discussions with several professionals in the accounting field, suggested that a need existed for the assessment of current practices and expansion efforts related to MAS activities by sole proprietor CPAs. The purpose of this thesis research was intended to provide a vehicle for determination of recommendations regarding the direction and the degree of evolution that MAS expansion efforts by sole proprietor CPA firms should take in order to satisfy client demands. The assessment need became the research objective and in its formulation, the author of the thesis made two fundamental assumptions:

# 1. Assumption Regarding Demand

The report assumes that clients of accounting firms, with few exceptions, have a need for some degree of external and professional management advice.

#### 2. Assumption Regarding Abilities and Desires

It was assumed that the public accounting profession is capable and desires to satisfy client demand for management consultative advice.

Essentially, the thesis research objective focus was limited to sole proprietor CPA firms; in that, this category

of public accounting firm appears to service principally smaller sized client organizations which because of limited staff/resources could benefit the most from MAS, [Ref.1]; have demonstrated only a moderate MAS activity expansion rate as compared to larger national firms, [Ref.2]; and comprise the majority segment within the accounting profession and could therefore, stand to strengthen professional recognition the most. [Ref.6]

As a means of obtaining the desired thesis research objective, a test of the following null hypothesis was conducted:

 $^{\rm H}{_{
m O}}\colon$  In general, sole proprietor CPA firms are not willing to expand their practices to include a full range of MAS for the clients they serve.

Pertinent researchable questions were asked in the testing of the hypothesis for the purpose of attempting to prove/disprove its validity.

#### E. BENEFITS TO BE DERIVED FROM THE RESEARCH EFFORTS

Anticipated benefits to be derived from this report, as a result of the author's thesis research efforts, are as follows:

# 1. Encapsulation of Market

Given the existing complex operating environments, organizations (especially small sized ones), will continue to require expert management advice from professionals external to the organizational structure. If sole proprietor

CPA firms do not expand their range of services to meet MAS demands, other types of professional firms may choose to offer more extensive services in the management consultative market. The CPA profession as a result, may have to relinquish a portion of its "practice territory." This report will provide essential information necessary for sole proprietor CPA's to assess the direction of the expansion of their MAS activities.

# 2. Increased Client Awareness

Authors in the field of professional accounting have noted recently that businessmen and other organizational managers are not fully informed as yet to all of the management advisory consultancy services available from the CPA profession. [Ref.2] This study should help the professional accountant to "educate" his clients regarding the benefits and range of MAS practices. Hopefully, the study will be an informative and useful guide to MAS.

#### 3. Identification of Areas of Specializations

Currently, some larger MAS practice units specialize in certain areas of operation management functions.(Ref.2) Sole proprietor CPAs may also be able to benefit from specialization within the field of MAS. An attempt has been made in this report to highlight possible specialization areas of interest both to the accountants and their clients. Sole proprietor CPA firms may find this report helpful as a

guide for assessing their current skills and the possible need to develop new ones.

# 4. Directions for Academic Development

As with most studies involving professional activities, this report should help the academic community in the formulation of curriculum geared towards management advisory consultative endeavors within the accounting profession.

# 5. Basis for Professional Enhancement

By looking at current MAS practices of sole proprietor CPA firms, it is envisioned that data contained in this report will help to increase the unanimity concerning an appropriate scope of MAS practices and thus, reduce any differences in the accounting profession. In total, the overall stature of professional accounting should be enhanced.

# 6. Replication of Previous Study Questions

Although this thesis research was directed towards the sole proprietor CPA firm, certain pertinent questions pursued in the process were not unique to this study. In part, an attempt was made to compare/contrast vital information obtained from surveys involved with the accounting profession as a whole, in order to verify or discount previous inferences made.

#### F. APPROACH AND METHODOLOGY

An inductive research approach and methodology was employed in this thesis for the purpose of attempting to disprove (test) the null hypothesis: H<sub>O</sub>, in general, sole proprietor CPA firms are not willing to expand their practices to include a full range of management advisory services to the clients they serve. In order to conduct a meaningful test, questions relative to MAS activities, and the specific issue raised by the hypothesis were developed from, replication of isolated portions of previous studies, initial interviews with practitioners and academicians in the professional accounting field, and a review of current professional accounting literature.

The resulting questionnaire was sent to 300 randomly selected sole proprietor CPA firms within the State of California. Sampling was limited to firms within California for the sake of temporal and financial considerations. Random sampling of a finite population within the boundaries of California was felt to be statistically sound because of the State's diversity of organizational clients and the operational mode of CPA firms who serve them. The author of this thesis determined that sample results could, with a reasonable degree of certainty, be projected to other sole proprietor CPA practices throughout the remainder of the United States.

In addition to the use of the questionnaire as a sampling tool, in depth interviews were conducted with sole proprietor CPA practitioners. These interviews allowed a discussion of various questions and points of interest not permitted within the limited questionnaire framework. Questions were verbally directed to practitioners in order to get a "feel" for issues of a general nature such as the desirability of firms to meet client management advisory demands, and the practitioner's view of ethical considerations germane to MAS.

Utilizing gathered data, current sole proprietor CPA activity in the MAS area was analyzed using the "system technique." This essentially involved looking at the entire spectrum of MAS practices within one segment of the accounting profession (i.e. sole proprietor CPAs), the theoretical service boundaries, and the meaning of MAS as perceived by professional accounting societies and authors on the subject. Problem areas which were revealed by the survey are presented and discussed relative to general management advisory concepts.

### G. THESIS SUMMARY

The intent of Chapter I was to provide the reader with an introduction to the public accounting profession's involvement in MAS activities; an identification of a potential problem in rendering of services by sole practitioners; a description of the research objective relative to the

problem; a listing of benefits to be derived from the author's study; and an overview of the investigative methodology and approach used in conjunction with preparation of the report. Essentially, Chapter I attempted to outline the rationale forming the basis for the author's investigative work.

Chapter II provides the reader with background information on the management consultative process with a large degree of emphasis placed on MAS activity expansion considerations. Specifically, Chapter II looks at management consultation in general, management consultation and the public accountant, and management consultation and the related functional considerations. A review of the MAS operating environment, various services, plus internal CPA firms organizational aspects provides a comparative basis for the reader's understanding of the realm of MAS pursuits within the public accounting profession.

Chapter III discusses the methodology employed in testing the null hypothesis, including a review of the question-naires sent to the CPA firms, as well as the nature of questions asked of practitioners and academicians during person-to-person interviews.

Chapter IV reviews the data provided by returned questionnaires and indepth interviews. The answers provided by respondents are presented, discussed, compared and analyzed. Differences in key questions contained in the thesis

questionnaire and similiar ones dealt with in previous studies, have been highlighted for comparison. Problems pertaining to MAS expansion have also been identified.

Chapter V provides a summarization and attempts to integrate information contained in the previous chapters. Key issues of MAS activity by sole proprietor CPA firms are discussed in regards to past, present and future expansion efforts. Specific conclusions are made and issues for further investigation by others have been identified.

# II. BACKGROUND

#### A. INTRODUCTION

This chapter provides the background information necessary for a thorough understanding of Management Advisory Services (MAS). The reader must understand the nature of MAS, the scope of services and the Certified Public Accountant's (CPA) operating environment, in order to appreciate the discussion of problems associated with it. Various considerations relating to MAS are covered and which are intended, to give the reader a full grasp of this professional public accounting service function.

Specifically, this chapter addresses topics pertaining to organization of the CPA firm in general and the overall scope of MAS activities. Special emphasis has been placed upon those elements integral to considerations given by CPAs regarding expansion of the current range of services. The emphasis placed on expansion of services, as viewed by the author of this report, is essential to the reader's perception of the relevance of issues raised by the basic thesis question.

The thesis question, which in-fact attempts to determine the willingness of sole proprietor CPA firms to expand into MAS areas, has been provided with meaning through a review of the domain of these consultative services. A review of the domain of MAS has been presented in this chapter, from the perspective of how the public accountant can expand his or her activities to accommodate external management advisory needs of clients. A statement regarding the general background of management consulting has been provided first, followed by an analysis of the CPA's qualifications relative to rendering MAS. Finally, the discussion attempts to impart insight into common methodology and techniques used by qualified CPAs in the delivery of MAS.

The information presented is broad and general in nature and is, to a great extent, characteristic of the total field of MAS. For brevity purposes, the discussion has been limited to a survey of considerations germane to MAS and is not intended to be an indepth study of the subject. Information presented in this background chapter has been gathered from professional publications and previous studies dealing with MAS.

#### B. MANAGEMENT CONSULTATION IN GENERAL

As mentioned in Chapter I, many firms are not equipped to deal with specialized problems and have therefore had to rely on outside professional help. [Ref.1] In order that the reader understand the implications of this trend and its impact upon the accountant's expanded role, the following areas of the management consultation process in general will be reviewed: (1) Prospective Client Organizations; (2)

Required Expertise and Areas of Activity; (3) Scope of Management Advisory Services; and (4) Growth within the Accounting Profession.

# 1. Prospective Client Organizations

The demand for <u>all</u> types of management consultation service engagements spans many divergent organizations of varying sizes. This trend is not new or limited to strictly unique organizations as was noted by John L. Carey in his book <u>Professional Ethics of Certified Public Accountants</u>.

[Ref.7] Carey observed that there

"...is a mounting demand from business enterprises for expert aid in all phases of management which will increase efficiency and profitability. This demand comes from businesses both large and small. It springs from the increasing complexity of our economic system and the increasing intensity of competition in an era of rapid technological improvements. No one man can be technically competent to deal with all management problems of modern business. Businessmen require help, and it must be supplied by someone."

Large size organizations appear to exhibit the greatest demand for management consultation services, even though small firms would stand to benefit the most due to the usual limited availability of internal staff resources. Roger Wellington's contribution to the <u>Accountant's Encyclopedia</u> by his section on "Enlarging a Practice Through Management Services" [Ref.1], made the point that

"...there is hardly a business of any size that cannot benefit in some way from competent professional assistance and advice, it is in the small company that the crucial need for management services generally exist. Information compiled by Dun & Bradstreet clearly indicates that inadequate

management is the principle cause of small business failures. This is logical because the small concern usually cannot support a well-rounded management staff and, as a result, many staff services that larger firms consider essential are either not performed at all or are tacked on to the duties of an already overburdened executive."

It appears from Wellington's observation [Ref.1], that the greatest <u>potential</u> demand for management consultation services emanates from small organizations. Although it is the small organizations that could probably benefit the most from competent outside help, they are often the very ones that will not seek this professional assistance, or are not willing to pay for or follow it. Accordingly, it is the public accountant, in his other established capacity as an advisor in other matters who has an opportunity to "educate" the clients concerning their need for management services. In essence, the author contends that, small organizations offer the greatest demand for MAS, <u>only if</u>, clients are adequately informed of service benefits by the CPA.

# 2. Required Expertise and Areas of Activity

A literature search by the author indicates the management consulting field in general is a large and varied one. It consists of many small firms that tend to specialize in one or very few management areas, and some very large nationwide firms that operate in many different areas. [Ref.3] The larger firms are able to offer a broad range of qualifications and differing viewpoints to organizational managers. In the aggregate, both large and small

firms cover a wide range of specialized fields of effort within the general area of management. Management consulting firms offer specialized advice in management areas such as personnel, marketing, production, etc. Special management fields have prompted some firms to "specialize" in one particular area - for example, personnel. Other firms have combined specialized consulting arts into a more generalized type of practice.

Those firms which provide generalized management consulting services tend to concentrate on the following areas of activity:

#### a. Industrial Engineering

This in itself is an outgrowth of 'scientific management' that developed in the early part of the century. Industrial engineering is concerned principally with methods, standards and the like and also with theories of organization.

#### b. Marketing

The concept of marketing has developed from advertising and related problems, and from the need for independent organizations that can conduct large scale surveys of customers and markets.

# c. Consulting Engineering

Consulting engineers are concerned with the design of factories, the layout of plants, the design of machines, and similar problems, all of which are approached with a view toward increasing efficiency.

# d. Finance and Accounting

This, of course, has to do with measuring and reporting on financial results of operations. [Ref. 2] Aside from those mentioned above, there are a number of other types of advisors, not formally classified as "management consultants", who fill the consultative needs of management. Among these are experts from lending institutions, investment firms, law offices, equipment suppliers, advertising firms and others who have a direct interest in the operation and management of organizations. Business colleges and professors are also available to assist the manager to deal with often complex and specialized situations.

Except by specific professional discipline (i.e. engineering, law, accounting, etc.), there appears to be no set of defined or rigorous standards that govern entry into the "profession" of management consulting. [Ref. 2] There are also no recognized methods for determining professional performance, no strict licensing requirements, and no overall recognized standards of education, training or experience. Each professional discipline (as will be shown later for the accounting profession), identifies education, experience and standards of practice for their respective members to follow when providing management services.

There has been a movement towards professional recognition of the "management consultant"; however, attainment of

a professional status for practitioners has not been fruitful. As an example, there is an Association of Consulting Management Engineers (ACME), which has set forth a code of ethics and recommended practices by which its members subscribe. The impact of the ACME has been limited because it cannot enforce or mandate the society's standards. Anyone or firm can call themselves "management consultants", "management engineers", "management advisors" or the like. There is at present, no strict enforceable state or federal management consultation title or practice laws. [Ref. 2]

In the practice of MAS, the public accountant should be keenly aware of the fact that it is his or her professional stature that "qualifies" the CPA to offer MAS. Lacking any professional general management consulting society or codified practice regulations, the client has to rely on the reputation of specifically established professional disciplines when deciding upon who shall be retained to provide MAS. The CPA must ensure that the professional body he or she represents is in no way downgraded by the manner, and methods employed during an MAS engagement. [Ref. 8]

# 3. Scope of Management Advisory Services.

There is, as was noted above, a great number of different kinds of management services and outside professional help available to organizational managers. As was pointed out earlier, management advisory services are in fact, almost as numerous and diverse as the businesses

themselves. These services range all the way from general business counsel to highly specialized technical work, such as the mathematics involved in operations research. [Ref.1]

It appears, based upon a literature search by the author, that the primary objective common to all management service providers is to help managers to:

- a. Conduct efficient and effective strategic planning
- b. Direct and control day-to-day operations
- c. Focus attention on deviations from organizational planning efforts
- d. Arrive at reasonable and effective solutions to operating problems

It has been the public accountant who traditionally has helped managers plan, direct, control and solve problems, by providing them with information and advice largely financial in nature.

Traditional accounting work and advice (i.e., services other than audits, tax work, maintaining accounting records and preparation of financial statements), has facilitated general management planning through preparation of organizational budgets, financial statements and independent audits. Public accountants have devised for managers, financial accounting and reporting systems, which have highlighted problems and/or opportunities that might otherwise go unnoticed. The public accounting profession has given

management the necessary financial information by which dayto-day decisions can be gauged.

The author feels that, accounting practitioners are indeed qualified to advise clients on any matter related to
accounting. He or she is obviously in a position to provide
professional advice in areas such as financial reporting,
internal financial control procedures and income tax issues.
It is difficult, however, to draw conclusions regarding the
limits of specific services that are of interest to the
public accountant, as well as those in demand by the client.

A CPA's advice and services provided to a small client may be inclusive of all aspects of the organization. With a large client, who will in all probability have "in-house" expert staff members, the CPA's advisory role may be limited to certain spheres of organizational activity. Because of different organizational considerations, an exact definition of management advisory services, as performed by the public accounting profession, is impractical.

Although an exact definition of MAS may be impractical, one which would serve to delineate the general meaning of the term, as well as the inclusive scope of services, would prove beneficial to the practitioner who contemplates expanding his or her advisory role. James Redfield in his work, A Study of Management Services by CPAs, [Ref.9] provided an early (1961) definition of MAS practice, a few years prior to its period of greatest growth:

"Mangement advisory services by certified public accountants may be defined as those services which are designed primarily to furnish advice or assistance to management through a professional relationship with respect to planning, organizing, or controlling any phase of business activity."

John L. Carey [Ref.7], has yet another definitive view regarding the meaning of MAS. Carey feels that MAS is inclusive of "...any service for management except financial auditing and tax work..." He sees the range of MAS as follows:

"Advisory services to management include assistance in answering an infinite variety of questions which business management has to consider in making its inescapable decisions. On many of these questions the certified public accountant who has made an independent audit of the business may equip himself by study and research to offer useful suggestions: for example, alternative ways to raise capital, the possibility of expansion, the relative profitability of product items, the determination of breakeven points and points of maximum return, the relative costs of selling in different markets, reasons for changes in the ratios of various cost factors to profits, and so on. On questions in such areas as these, the CPA who knows the historical experience of the business is familiar with its financial affairs, and is aware of tax considerations that should be able to provide useful information and advice if he makes himself competent to do so."

Carey's [Ref.1] ideas on the range of MAS are premised on the notion that CPA experience with their client allows them to "take-on" any management problem if they make themselves competent to do so. This concept will be discussed further in the discussion.

The American Institute of Certified Public Accountants
(AICPA) views MAS as a professional relationship between the

CPA and the client. A description of MAS as contained in an AICPA publication, "Statements on Management Advisory Services", reflects the professional nature of services:

Management advisory services by the independent accounting firms can be described as the function of providing professional advisory (consulting) services, the primary purpose of which is to improve the client's use of its capabilities and resources to achieve the objectives of the organization. This can relate to areas such as:

- a. The management functions of analysis, planning, organizing, and controlling,
- b. The introduction of new ideas, concepts, and methods to management,
- c. The improvement of policies, procedures, systems, methods, and organizational relationships,
- d. The application and use of managerial accounting, control systems, data processing, and mathematical techniques and methods, and
- e. The conduct of special studies, preparation of recommendations, development of plans and programs, and provision of advice and technical assistance in their implementation.

In providing this advisory service, the independent accounting firm applies an analytical approach and process which typically involve -

- f. Ascertaining the pertinent facts and circumstances
- g. Seeking and identifying objectives,

- h. Defining the problem or opportunity for improvement,
- i. Evaluating and determining possible solutions,
   and
- j. Presenting findings and recommendations and, following the client's decision to proceed, the independent accounting firm may also be involved in -
- k. Planning and scheduling actions to achieve the desired results and,
- Advising and providing technical assistance in implementing. [Ref. 10]

By the above MAS definitions and ideas regarding range of activity, one point is made without a formal statement. The point being that although actual professional services are extremely diverse and employ many areas of knowledge, CPAs who engage in MAS do not make decisions for clients. Robert H. Roy and James H. MacNeil in their book Horizons for a Professional [Ref.ll], compared the CPA's advisor role, not a decision-maker, with that of other professionals:

"According to convention, clients (or patients in the practice of medicine) are <u>advised</u> by the professional whose services they retain. A lawyer <u>advises</u> his client to sue or to settle out of court, a physician <u>advises</u> his patient to undergo surgery, a CPA <u>advises</u> his client to revise his inventory control system. In none of these cases is the client obliged to obey. He, the client, is the decision maker."

Hence, the CPA who may indeed be "qualified" to make client decisions, must in fact adhere to reality in his or her professional client relationship, by providing advice only.

The variety or extent of MAS offered by CPA firms is limited by the individual accounting firm's resources, practice goals and adherence to professional ethics. Limitations on the scope of services provided are outlined in the organizational policy of each practicing CPA firm. The scope of services is not consistent between public accounting firms as was observed by Edward L. Summers and Kenneth E. Knight in their work, A Study of Required Knowledge for Management Advisory Services by CPA's:

"Most firms voluntarily limit the scope or variety of services rendered so that they are consistent with the firm's resource limitations, interpretations of professional ethics or philosophy of prac-Such limitations on scope of services are stated as policies of the individual firm and are not consistent from one firm to another. The most commonly encountered services are those related to the systems operating in business functional areas such as finance, accounting, and data processing. The researchers found the scope of services rendered by individual CPA firms to vary between a few specialized services and the full range of services performed by large non-CPA general consulting firms. Only a few of the very largest MAS practice units attempt to offer such a full range of MAS services; however, services offered by these large firms are also offered in part by some of the smaller ones."[Ref. 3]

Essentially, the larger the CPA's practice is, the more likely the variety of MAS which he or she can offer clients. Because the amount of available resources constrains the

variety of MAS, some smaller firms "refer" clients to larger firms for management advice.

Actual and prospective CPA firm clients also influence conscious decisions regarding the nature and range of MAS that a public accounting firm will offer. Client types and numbers will cause the CPA firm to consider such factors as firm independence, the competence profile the firm wishes to present, and the specific interests of the CPA firm personnel. [Ref.2] The CPA firm will always determine the range of services to be provided by not accepting engagements that involve services inconsistent with its policies. A CPA may determine, by selective acceptance of engagements, its own scope and level of MAS services consistent with its skill and knowledge inventories.

As pointed out earlier, the CPA's extent and range of MAS is varied from firm to firm. To illustrate this diversity, a list of significant MAS services developed from replies of the "MASBOKE" firm survey, (AICPA sponsored, 1974) is provided in Appendix A. The service types noted in Appendix A were designated as significant by 40 percent or more of firms respondent to the "MASBOKE" firm survey.[Ref.3]

# 4. Evolution within the Accounting Profession

The scope of services provided by the American professional accounting community has, over the span of this century, evolved from work of an operating nature to specialized financial reporting efforts. Up until the early

1930s, public accountants provided clients with financial information and advice related to operating functions such as production management, costing systems and other assistance to decision makers. This role changed, however, with the advent of the Federal income tax and wider public ownership of companies. Greater demand for specialized experts in the field of auditing and tax work exceeded the number of available accountants. As a result, notes Wellington, "...it now appears that most professional accountants concentrate on services in the accounting, auditing, and tax fields, and leave the broader aspects of their practice, namely management services, to be done by others." [Ref. 1]

Wellington's assessment regarding service areas of major concern to present day public accounting practitioners tends to be supported by the AICPA-Roper survey which was conducted in May of 1974. The AICPA-Roper survey [Ref.3] of 1,152 small CPA firms and individual practitioners showed that 94 percent of the firms with two or more professionals reported offering MAS. Of the sole practitioners, 83 percent responded that they offered MAS services. The same survey responses indicate, however, that an average of only 10 to 11 percent of total professional time was spent on MAS. This was true for all types of firms regardless of size, location, and whether or not there were full-time professionals on the staff.

The survey does not indicate the increasing interest or growth rate associated with MAS. Reference material compiled by concerned groups or committees (i.e. MASBOKE task force, AICPA, MAS executive committee, etc.), illustrate an increased interest in the subject of MAS throughout the profession. Other surveys have revealed a positive growth rate in MAS functions, which of course reflects increased interest by CPA firms. In general, the projected MAS activity also appears to be favorable, although some variations concerning the rate have been noted by Summers and Knight in a survey conducted by them:

"The expected growth rate estimates for MAS chargeable hours vary considerably, with the greatest variation found among estimates prepared by smaller CPA firms. An estimated average growth rate currently may be about 10 percent annually, but the researchers encountered some practices expecting no growth or even slight shrinkage (especially relative to the size of the practice prior to the 1971 recession in the consulting profession) as well as expectations of doubling in size from year to year. Thus, it may be said that a consulting practice is more sensitive to economic fluctuations than either audit or tax practice." [Ref. 2]

MAS activity, as has been suggested by literature reviewed by this author, may help contribute to the evolution of the accounting profession, just as increased interest in financial reporting and income tax work effected the provision direction early on in this century.

#### C. MANAGEMENT CONSULTATION AND THE PUBLIC ACCOUNTANT

As previously discussed above, today's public accountant is in a general way "qualified" to provide clients with

professional management advice. The focus of the discussion will now concentrate on the specific relationship of the CPA to management consulting, by an overview of three basic considerations:

(1) Beneficial Leverage the Public Accountant has over Internal Management; (2) Beneficial Leverage the Public Accountant has over Other External Consultants; (3) Disadvantages and Imposed Limitations of the Public Accountant's Position.

# 1. Beneficial Leverage the Public Accountant has over Internal Management

In most situations the author contends that, the public accountant has the ability to advise his or her client better in the area of efficient management programs than can the client's own staff. The generally agreed upon reasons for the public accountant's "superior" input regarding efficient management programs are as follows:

## a. Independence of the Public Accountant

The client can insure that special management problems receive "expert" attention without the need to add permanent additions to the company payroll, if independent outsiders are employed. More important is the fact that an outside public accountant can deal with management problems with a fresh and objective view point. He or she is not normally constrained by internal organizational "politics." The public accountant is also relied upon by other outsiders, such as creditors, stockholders, government and

other interested third parties, for the preparation of credible financial statements. The public accountant in his or her traditional role has established "credibility," something an internal expert may find difficult to accomplish.

b. Knowledge and Experience of the Public Accountant Normally, the public accountant has and many contacts with organizations of varying size, nature nad complexity; therefore, the accountant gains great insight into management operations. He or she has dealt with common basic organizational problems which the one-company individual may not have been exposed to. Across organizational boundary problems, as presented to the CPA, has required the professional to equip himself with many knowledge skills. MAS work brings these skills to bear upon a client's management problem. The inside consultant may never have the chance to develop necessary skills equal to that of the accountant.

#### c. Familiarity with Office Operations

While in the process of providing traditional accounting services, the public accountant becomes familiar with an organization's office procedures, policy and personnel. His or her observations of overall operations allow the public accountant to react to management problems with an appreciation of all facets of day-to-day operations.

# 2. <u>Beneficial Leverage the Public Accountant has over</u> Other External Consultants

During the above discussion regarding management consultation in general, it was pointed out that individuals who are not professional accountants, can qualify to provide outside advice to management decision makers. The CPA does, however, have certain advantages over other consultants in the following ways:

#### a. Knowledge of Accounting and Taxes

With almost certainty, any proposed management program or decision has to be viewed in the perspective of long-range financial effect, including the possible tax consequences. Financial and tax work is, of course, the public accountant's "forte," a skill not offered by other consultants.

b. Current Understanding of Operations and Organization Structure

In order to provide sound advice to managers, other independent consultants have to devote much time, effort and expense to obtain a working knowledge of the organization. A public accountant, through the course of his or her regular work within the concern, assimilates and employs this knowledge as a matter of routine. The public accountant has also an established relationship with employees of the firm, which enhances the process of gaining additional knowledge should it be required.

#### c. Recognized Professional Standards

Clients are aware of established protective ethical standards which guide the professional accountant's action. They have, an obligation to perform services for which they are qualified by aptitude, education, training, and experience. Other consultants may operate in a completely ethical manner, but the client has no assurance that they will do so beyond the personal evaluation of them.

# 3. <u>Disadvantages and Imposed Limitations of the Public</u> Accountant's Position

Having the necessary qualifications and "competitive edge" over other outside consultants has not encouraged or insured to the maximum extent possible, unlimited growth of MAS offered by CPAs, for the following reasons:

a. Management is Unaware of CPA's Range of Services

Public accountants (some) have failed to "educate" their clients regarding the scope of professional services they offer. The accountant needs to keep his or her clients advised of the type of services that can be rendered, what these services will cost, and what the client can expect in the way of cost savings and/or associated effectiveness payoffs. Recent changes to solicitation restrictions, as previously imposed by the AICPA, may provide impetus to CPA's need to pursue "salesmanship" relative to MAS offerings.

b. Failure to Acquire Management Consultative Knowledge

Very often, the CPA may not be willing to devote time to increasing his or her knowledge factors pertinent to MAS. The public accountant, because of his or her auditing and tax work, may feel that there is insufficient time to devote towards necessary research and organization aspects critical to expansion into MAS activities. The fact remains, however, that the CPA by his profession choice, has a "head start" on other outside consultants. As one author notes, "...a CPA can increase his practice by 50 to 100 percent without the addition of new clients by expanding into MAS activities." [Ref.1] Given this consideration, a CPA might consider finding time to devote towards gaining MAS skills.

c. Lack of Professional Referral Within the Accounting Profession

Accountants, unlike doctors and lawyers, have shown a marked reluctance as a group to refer certain problems of their clients to specialists within the profession who are particularly qualified to handle these problems. Consequently, clients must go outside the accounting profession for help in areas that members of the profession could have been of some assistance. Public accountants need to refer more within their own profession and

put aside fears of losing a client to another accounting firm.

# d. Impairment of the CPA's Independent Status

As mentioned before, when a CPA provides MAS in response to client requirements, he or she insures that the service rendered is advisory in nature and in no way suggests that the public accountant is directly involved in the management decision-making process.

To become involved in the decision-making process would raise serious doubts regarding the public accountant's independence. The accountant must also insure that through provision of MAS efforts that he or she avoid any situation that would cause the CPA to lose an objective attitude towards the financial statements of his or her clients. Summers and Knight highlight this issue by noting that:

"An element of the consulting process that is unique in CPA firms is the need to coordinate MAS engagements with the pre-existing financial audit relationship with the client. The auditor-client relationship is a continuing one that often extends over many years. In most firms performance of audits and preservation of the auditor-client relationship takes precedence over MAS and tax work for the same client - that is, to perform an audit engagement requires auditor independence, and no event or condition is allowed to intrude that has any appearance of, or potential for, jeopardizing auditor independence with respect to existing clients."

Essentially, when an MAS engagement is in process for an audit client, that most prudent CPAs will insure that a special review is conducted within the accounting firm to make sure that the auditor's independence is not

compromised. For non-audit clients, CPAs attempt to maintain an independent role in hopes that a continuing auditor-client relationship will emerge from the consulting work.

Mary E. Murphy, in her book, <u>Advanced Public Accounting</u>
Practice, suggests that:

...a CPA who furnishes management services should answer two questions: first, Am I remaining an advisor to management and not entering the decision-making area?, and second, Am I sure that the audit of the financial statements will not involve checking my own work? Unless the practitioner can answer these two questions in the affirmative, his independence as to furnishing an objective report on management is in jeopardy. [Ref. 12]

Murphy's suggestion seems to provide guidance to the CPA which will allow him or her to comply with the "independence-in-fact" requirements of both the AICPA [Ref. 13] and the Securities and Exchange Commission (SEC rule 2.01 of reg. SX.). [Ref. 19]

#### D. MANAGEMENT CONSULTATION AND FUNCTIONAL CONSIDERATIONS

Management advisory services work does not lend itself to a "typical plan" of office organization or clear cut set of work methods. As a general field, MAS cannot be described and set forth in simple steps on a "how-to-do-it" basis. There are, however, based upon the author's research of the subject, procedures and approaches which have been successfully employed by public accountant practitioners. The following discussion will explore the more common functional considerations that a CPA should normally be aware of in

relation to expansion of his or her current practice into MAS activities. Functional considerations which will be discussed are (1) planning for expansion; (2) internal organization; (3) knowledge factors; (4) conducting an engagement.

## 1. Planning for Expansion

Obviously, good business sense dictates that sound management planning efforts proceed any anticipated organization, product line or service expansion program. The same reasoning should be applied by the CPA to expansion of services into MAS activities. A carefully thought-out plan, tailored to the needs of the firm's clients and skills of the public accounting firm members, under normal circumstances, will have the best chance of success. The literature suggests that MAS activity expansion planning considerations normally are based upon the following general approach:

a. Determine Extent of Management Advisory Services required by Existing Clients

This determination is normally accomplished by survey methods. Survey methods should suggest possible ways of specializing such as by: (1) industry; (2) area of management function; (3) Special types or areas of knowledge and techniques; (4) Services in the area of management controls in general systems.

b. Assess Training, Experience and Special Interests of CPA Firm Principles and Staff Members

This planning element would indentify the kinds of services that could reasonably be offered in response to client demands. It would also suggest additional training and staffing requirements necessary to satisfy immediate expansion. The purpose of this step is to underscore general direction of the firm's MAS activities.

c. Chart a Long Range Plan for Improvng Individual and Firm Abilities

The plan should build upon skills currently available within the public accounting firm and be consistant with previously agreed directions. Most plans of this nature, usually assign responsibility for becoming knowledgeable and proficient in specific areas to certain key individuals. Training schedules, procurement of reference materials, and tentative "learning" client engagements, are also made an integral part of the plan.

d. I Required, Develop a Plan for Recruitment of Specialized Staff Members

Some firms may find the need to recruit personnel with specialized and very specific qualifications, say for an example - an EDP specialist. Other firms may find it desirable to hire an individual who has had general MAS experience and assign him or her as an MAS department head. In either case, a staffing plan should be developed to

reflect timing of recruitment actions along with specific qualifications for the position(s) to be filled.

e. Prepare an Office Program Engagement Schedule for Prospective Client MAS Engagements

A schedule of all tentative MAS engagements should be made which graphically illustrates all prospective clients, types of services to be performed, critical milestone dates and personnel assignments. This schedule is used to plan day-to-day MAS efforts and provides a basis for performance measurement.

The above planning approach is broad in nature and would have to be refined in a manner conducive to requirements of an individual public accounting firm. Without an expansion plan, the author feels that the eventual success of CPA regarding MAS engagements may be subject to high uncertainty.

### 2. Internal Organization

Specific internal organization, like MAS, varies considerably between public accounting firms. In total, however, those CPA firms which carry out a substantial amount of MAS services normally set up a separate department within the organization. [Ref. 3] The "MAS Department" is assigned its own working space to facilitate exchange of information and ideas among staff members and principles. Large practices may choose to head up the MAS department with either a principle or senior manager (sometimes a

non-accountant professional.) Regardless of who heads up the department, regular meetings are held between principles and MAS staff to discuss engagement(s) progress, personnel assignments, quality of work and additional training requirements.

In the small office establishment, a separate MAS department is seldom found because of the impracticableness. Small firms, like the large public accounting firms, often hire specialists to help carry out MAS activities. Recently, there has been a trend for one or more small CPA firms to combine MAS staff resources into a professional corporation. The professional corporation allows individual CPAs to draw from a common pool of MAS resources and take advantage of management benefits derived from increased economics of scale.

Both large and small CPA firms involved with MAS typically exhibit various levels of professional responsibility. Compensation at each responsibility level is compatible to that encountered at similar levels in other professions and in top management in industry. Common levels of responsibility within large MAS firms are:

#### a. Staff Consultants

They represent the first level of responsibility and are often the least experienced in the consulting environment. Most are formally educated and possess unique

skills prior to joining a firm. A person will spend from one to four years in this position.

#### b. Senior Consultants

A senior consultant represents the second step in the responsibility ladder. A "light" senior may supervise other consultants, while a "heavy" senior may be in charge of several engagements.

#### c. Managers

A manager is at the third level of responsibility. He or she is responsible for planning, supervising and completing all MAS engagements. The manager provides day-to-day contact with client representatives and is normally responsible for determining engagement resource requirements, client follow-up and spotting possible new MAS engagements.

### d. Partners or Principles

The partner or principle is at the highest level of the MAS/CPA organization and is responsible for overall engagement definition and planning. The partners or principles are the "public relations" element of the firm. They insure that MAS capabilities of the firm are made available in the potential client marketplace. [Ref. 2] CPA firms organized with inclusion of "MAS partners" typically insure that these individuals have extensive administration, educational and developmental responsibilities. Only rarely do

MAS partners become the senior partner in charge of an office of the firm. [Ref. 3]

#### 3. Knowledge Factors

There are presently three major bodies of knowledge supportive of the MAS consultative process. [Ref.3] The three major bodies of knowledge which a public accountant involved in MAS activities must be aware of comprise certain "component" bodies of knowledge. [Ref.2] The major and component bodies of knowledge are as follows:

### Major Body of Knowledge

## Component Bodies of Knowledge

 General knowledge, including the Consulting Art.

- How the CPA profession operates
- How Business Operates and is manged
- Unique characteristics of Public Sector Entities
- Communication
- MAS Practice and Engagements Characteristics
- 2. Knowledge of Organizational Functions and Technical Disciplines
- ExecutivePlanning, Implementation, and Control
- Finance and Accounting
- Electronic Data Processing
- Operations
- Human Resources
- Marketing
- Management Science
- 3. Knowledge of Industry and the Public Sector
  - Industry
  - Governments and Not-for-Profit Organizations

Concepts from all three major bodies of knowledge may be required to perform any single MAS engagement. Summers and Knight reveal that these bodies of knowledge are not of equal importance or used by all MAS professionals [Ref. 2]. Among different MAS practitioners, the bodies of knowledge

and the same

also vary in their complexity, principle means of acquisition and specific application. The bodies of knowledge also, in terms of content and structure, are completely independent of such factors as CPA firm size, engagement size or complexity, and the means of service or extent of formal documentation, as practiced by the individual CPA firm.

In general, Summers and Knight believe that much knowledge of MAS activities can be reduced to a form that most consultants would recognize, and may be characterized as the ability to:

- a. Establish a relationship of confidence between the consultant and others, including actual and potential clients at all managerial levels.
- b. Establish two-way commuication with clients and other experts as required by the engagement.
- c. Plan an engagement, from the formulation of the proposal to delivery of final recommendations, including appropriate documentation.
- d. Assimilate information rapidly and fit it into a reasonable explanation of the situation.
- e. Be persuasive and influential in areas important to execution of the engagement.
- f. Change from one client's problems quickly and without mental slippage, remember details, know one's own limitations as well as those of others

- and quickly correct or adjust for them in the engagement.
- g. Develop additional skills and specializations as or before needed and recognize and utilize skills in others.
- h. Accept professional or personal criticism, whether fair or unfair, without feeling threatened and deliver criticism constructively without appearing to threaten. [Ref.2]

The author contends that the professional behavior pattern suggested by this generalized knowledge is essentially a wholesome and open one. Part of the MAS knowledge requirements involves development of a "bedside manner," a skill which may only be developed through provision of service.

# 4. Conducting an Engagement

Conducting an MAS engagement begins with an engagement letter, which sets forth a clear understanding with the client as to specifically what the CPA's duties will include as well as the responsibility the client's own personnel will assume in assisting the public accountant. All agreements, verbal or otherwise, should be reduced to writing and incorporated into the body of the engagement letter. Failure to document agreements can lead to misunderstanding and client dissatisfaction.

Because MAS engagements vary in scope and nature, it is not possible to provide a general description of how one ought to conduct an MAS engagement. There are some sound principles which CPA's feel should be followed by the practitioner:

- a. The assignment may require that an initial survey be made of the particular area of the client's operation that is to be studied, in order to clarify just what the work will involve. Then, based upon the results of this survey, a further program may be developed as needed.
- schedule for completion of the various phases of the assignment. This schedule should cover those phases for which the client will assume responsibility as well as those that you and your staff will perform. In this connection, in any work involving installation of a system or program, it is a good idea to have an appropriate person of the client's organization, probably a junior executive, assigned to work full time with the consultants during their assignment so that he will have a thorough understanding of what has been done, and why, and be able to carry on after the consultants complete their work.
- c. As early as possible in the engagement, decide whether or not there is to be a report, and if

so, what the report is to include. This will enable you to collect the necessary information in the course of your work. Recognize that the preparation of reports in this kind of consulting work can be time consuming and expensive, but, of course, reports have great value. They not only summarize for the client what you have done, and your recommendations - they also serve to put on record the firm's experience and techniques in the particular kind of work involved. Such records can be highly useful within the firm in the event of similar engagements in the future. A well organized report is a very good guide for the writing of other reports for similar assignments.

- d. During an assignment of any duration, regular reports on progress should be made, at least verbally, to the client. A definite scheduled weekly report is a good way to accomplish this.
- e. If the engagement involves development and installation of procedures or systems that the
  client is expected to carry on, it is advisable
  to arrange for periodic follow-up visits,
  following completion of the installation, to iron
  out the inevitable "bugs" and to see that the

client's personnel are following through and carrying out instructions as they should. Without such follow-up, many a well designed system has failed to operate properly, with attendant unsatisfactory reflection on the competence of the consultant.

- f. Be sure that you have done a thorough job on "selling" the client's personnel on what you are proposing on installing, starting with the man at the top. Resistance to change is natural, and without cooperation of the client, little can be accomplished.
- g. An early agreement, probably at the time of making arrangements for the engagement, should be reached with the client on the method of billing the work including rates to be charged, how often bills will be rendered, and an estimate of the total cost. Since it may be difficult to forecast the stopping point for work of this kind, it frequently is advisable to arrange montly billing for services rendered to date. Billing rates should be set so as to reflect the high caliber of staff required for this type of work, the extensive training necessary to equip the staff with improved techniques, and the partner's supervision necessary to assure the

client that the broadest experience of the firm is utilized in dealing with his problems. [Ref.1]

#### E. SUMMARY

This chapter has attempted to review the domain of management advisory services from the viewpoint of how the public accountant can expand his or her activities to accommodate client organizations' external consultant needs. Although the discussion was limited to a survey of considerations relative to management advisory services, it is hoped the reader has been provided with meaningful insight into common methodology, techniques and professional qualifications necessary for successful CPA endeavors relative to MAS.

Given complex operating environments, CPA client organizations will need to undergo major changes in an effort to provide products and/or services in a more effective and efficient manner. In all probability, client demand for MAS will increase in order to facilitate organizational changes. The sole proprietor CPA, if adequately trained and willing to increase his or her range of accounting services, may stand to benefit greatly from the offering of MAS. Questions related to the willingness of sole proprietor CPA firms to expand their present activities, as well as issues pertaining to MAS in general, will be discussed in the next chapter. The next chapter addresses the results of the sole proprietor CPA firm survey.

#### III. RESEARCH PROCEDURES

#### A. INTRODUCTION

This chapter is directed towards the research methodology employed in support of the central research objective discussed in Chapter I. Specifically, this chapter provides a comprehensive overview of the methodology used to determine the willingness of sole proprietor Certified Public Accounting (CPA) firms to expand current Management Advisory Services (MAS) activities and to also deal with resultant recommendations pertaining to the possible future direction and evaluation of these activities. Presented in this chapter, is an author developed questionnaire survey used to gather data relative to the extent and nature of sole proprietor CPA firm MAS engagements. In addition, questions asked during indepth interviews with selected sole proprietor CPA practitioners and academicians have been presented, along with the rationale for asking them.

The information gained during these interviews, as well as data obtained from the questionnaire, will be presented and analyzed in the next chapter. Specific conclusions with recommendations concerning the relevance of the data, to both existing and future sole proprietor CPA firm MAS practices, will be detailed in the final chapter.

#### B. SURVEY QUESTIONNAIRE

The following discussion of the author developed questionnaire attempts to focus on three interrelated survey and data collection issues: the methodology employed; the measures utilized; and the basis for sample selection. Aspects of these issues, which the author feels are important for the readers understanding of the analytical procedures, are described below. Sampling considerations pertaining to the personal interviews are discussed later in this chapter.

#### 1. Methodology Employed

A survey was conducted by sampling randomly selected sole proprietor CPA firms via a mailed questionnaire (Appendix C). In addition to background data on the public accounting firm and its staff members, the questionnaire was designed to gather data concerning the organizational structure, client base composition and range of services germane to the specific organizations surveyed. The questionnaire was also structured in a manner to permit gathering of data related to the respective firm's assessment of their past and anticipated MAS engagement growth rates, the magnitude of client demand for MAS, the use of advertising for professional services and the willingness to refer clients.

Table III-1 summarizes the characteristics or attributes of the CPA firm organization or professional services being measured by each question of the questionnaire. In Table

III-2, the attributes being measured by each question have been grouped according to their specific area of general interest to the author i.e., respective accounting firm background, organizational structure, client base composition, etc.

## 2. Measures Utilized

Questions numbered 1, 2, and 7 of the sole proprietor CPA firm questionnaire which measured organization background information used a nominal scaling measurement technique for the purpose of categorization. No ordering among categories is implicit in this type of measurement. The purpose of the questions was to enable a segregation of data by groupings, such as public accountants certified in the State of California vs. those public accountants certified elsewhere, or CPAs with a business education background vs. those CPAs with a more technical education background. This type of analysis, was attempted for the purpose of validating the potential influence of general organization background considerations on the scope and extent of MAS offered. Due to their straight-forward objective approach, this author feels, that the responses to such questions were not biased.

Questionnaire items numbered 3, 4, 5, 6 and 12 were also based upon a nominal scaling measurement technique. The questions were designed to measure <u>organizational structure attributes</u> of sole proprietor CPA firms. The

# TABLE III-1 KEY TO SOLE PROPRIETOR CPA FIRM QUESTIONNAIRE

(In utilization of the following information refer to Appendix C)

	CHARACTERISTIC/ATTRIBUTE	QUESTION NUMBER
*	Professional accreditation	
*	Age of firm's practice	
*	Degree of practice decentralization	
*	Size of professional staff	• • • • • • • • • • • • • • • • • • •
*	Extent of staff dedicated to MAS	
*	Extent of professional staff dedicated	
*	Nature of proprietor's education	
*	Nature of client ownership type	8
*	Size of client operations	
*	Extent of total firm service specializ	
*	Scope of total firm MAS activities	11
*	Degree of MAS function separation	
*	MAS billing method	13
*	Past MAS growth rate	
*	Projected MAS growth rate	
*	Relative desire to increase range of M	AS16
*	Relative desire to increase client bas	e through MAS17
*	Extent of factors limiting MAS activit	y expansion18
×	Extent of MAS specialization	
*	Nature of MAS specialization	
*	Degree of client MAS recognition	
<del>*</del>	Degree of client education efforts	
*	Nature of professional service adverti	
×	Impact of professional service adverti	
		24
*	rmbace or broscopionar pervice adverce	
_	activities	25
# _	Relative desire to refer clients	
×	Range of reasons for not referring cli	ents27
π -	Relative desire to specialize in MAS	28
Ħ	Relative assessment of proprietors MAS	
	cations	29

# COMPARISON OF AREAS OF GENERAL INTEREST TO SOLE PROPRIETOR CPA FIRM QUESTIONNAIRE

#### TABLE III-2

(In utilization of the following information refer to Appendix C)  $\label{eq:continuous} \mbox{\bf dix} \mbox{\bf C}$ 

AREA OF GENERAL INTEREST	CHARACTERISTIC/ ATTRIBUTE	QUESTION NUMBER
* Organization Background	* Professional accredits * Age of firm's practics * Nature of proprietor's	• 2
* Organizational structure	* Degree of practice decition	3 staff4 mtion to5 l ataff dedi6 n separa-
* Client base	* Nature of client owner * Size of client operat	
* Range of profes- sional services	* Extent of total firm specialization * Scope of total firm M ties	10 MS activi1113 ization19 ization20 f pro-
* MAS activity growth rate	* Past AS growth rate. * Projected MAS growth * Relative desire to in of MAS  * Relative desire to in client base through * Extent of factors lim activity expansion * Relative desire to sp MAS	rate15 crease range16 crease MAS17 iting MAS18 ecialize in
Client demand for MAS	* Degree of client MAS * Degree of client educ forts	ation ef-
* Advertising of services	* Nature of professiona advertising * Impact of professiona advertising on tota * Impact of professiona advertising on MAS	l service l services24 l service
* Client referral	* Relative desire to re clients * Range of reasons for ring clients	not refer-

respondents were asked to select from a finite number of choices, organizational structural aspects which were unique to their firm's operation. Again, the author does not feel that the response to such questions were biased because of their straight-forward objective nature.

Question numbers 8 and 9 were formulated to measure the sole proprietor CPA firm's client base composition attributes. These two questions were based upon an ordinal scale of data measurement. This form of measurement ranks objects or situations from the smallest to the largest or from the lowest to the highest. In this case, the questions are intended to measure two specific client base composition attributes; that is, the client organization ownership type as well as the relative client organization size. Bias may have resulted from interpretation of the client situations. It also may have been difficult for some sole proprietor CPA's to accurately express from memory just to what degree their clients are organized and/or the exact size of the client's operation.

Questionnaire item numbers 10, 11, 13, 19 and 29 measured the range of professional service attributes of the sole proprietor CPA firm practice. With the exception of question number 10, the nominal scaling measurement technique was employed for the purpose of categorization of various data attributes. Again, there was no attempt to order among the categories with this type of measurement device. In

question number 10, there was an attempt to order a specific range of professional service attributes. It may have been possible to bias the data obtained from question number 10 because of an inaccurate personal perception of definitive terms used in the body of the question. For example, two CPAs may have interpreted the word "roughly" different in this question. All questions may have been subject to this bias, even though an attempt was made by the author to reduce such ambiguities. Question number 10 may also have been biased, in that, the respondents were not asked to verify requested "percentages" through a search of their firm's records.

Question number 20 also looked at the <u>range-of profes-sional attributes</u>; however, the question was open-ended in nature and subjective. It was designed to solicit a response which dealt with the actual areas of MAS specialization. A response was predicated on the respondents "yes" answer in question number 19 (a nominal scale range of professional attributes question). The intent of this question was to augment the specified fixed range of professional services contained in question number 11. Although the responses were subjective, they should provide valuable insight into propositions regarding the range of MAS services.

Question numbered 14-18 and 28 were developed on the basis of three different forms of information and attribute

data measurement techniques. All of these questions were designed to address aspects of MAS activity growth rate information or attributes. Questions numbered 14, 15 and 28 employed the nominal scaling technique. There was no basis to categorize data required of questions 14 and 15. Question number 28, which addressed the desire of CPA firms to specialize, could have been based upon an interval scale measurement technique in order to assess the degree of desire to specialize. For questionnaire brevity purposes; however, the author chose to use a nominal data measurement scale. Questions numbered 16 and 17 were based upon an interval scaling form of measurement (10 point Likert scale). In this type of measurement, objects are not only ordered with respect to some measured attribute, but the intervals between adjacent points on the measurement scale are equal.

Questions numbered 16 and 17 were not pretested or validated. It may have been possible for the responses to these questions to be biased. The social desirability could have prompted an accounting practitioner to respond in a manner which the individual believes is compatible with his or her professional society's "stated position." It may also be that, the accounting practitioner had never before given considerable thought to issues addressed in the questions pr'or to receipt of the questionnaire. The individual's response may strictly be intuitive and without much

prior conviction. This type of bias is also possible with questions 15, 18, 22, 25, 26, 28 and 29.

Question number 18, which as mentioned before also address MAS activity growth rate information or attributes, is essentially an open ended question designed to identify limiting factors relative to expansion of MAS activities. The responses, were in part, purely subjective. They do however, help define the extent of service expansion limitations.

Questionnaire items 21 and 22 attempt to measure client demand for MAS attributes through the use of a nominal scaling technique. The purpose of these two questions was to provide a categorization of data with regard to the degree of sole proprietor CPA firm client's recognition and understanding of MAS. Question number 22 may have resulted in some degree of bias because it essentially deals with a professional "judgement" issue. Based on a literature review by the author, professional accounting protocol suggests that practitioners should "educate" clients concerning service skills and benefits.

Questions numbered 23-25 deal with <u>advertising of service attributes</u>. Nominal measurement scales were used. In the opinion of the author, the data may have been biased due to the difficulty experienced by firms in substantiation of gains (positive or negative) resultant from advertisement endeavors.

Questions numbered 26 and 27 look at the last area of general survey interest, specifically, client referral attributes. Question number 26 is based upon a nominal scaling method and is unbiased due to its objective nature. Question number 27, on the other hand, is open-ended and subjective. This question attempts to extract bonafide practitioner reasons for not making client referrals.

# 3. Basis for Sample Selection

The survey questionnaire was sent to 300 randomly selected sole proprietor CPA firms within the State of California. These firms were selected from a total population of sole proprietor CPA firms which numbered 3,047. Firm names were drawn by a random selection process from the California Societ, of Certified Public Accountants, Directory of Members, August 1980, "CPA firms and Proprietors." [Ref.15] In selecting which sole proprietor CPA firms would receive the survey questionnaire, it was decided for the sake of temporal and financial considerations, to limit sampling to the State of California. Random sampling of a finite population within the boundaries of California was thought by the author to be statistically sound because of the State's diversity of client organizations and the operational mode of CPA firms who serve them.

The author of this thesis determined that sample results could, with a reasonable degree of certainty, be projected to other sole proprietor firms throughout the remainder of

the United States. It was also determined by this author, that a minimum of 35% of the sample population should have been sufficient to ensure reliability of that data results. A 50% response is typical in social science research. [Ref. 16] Based on two previously related surveys; however, ore conducted by the Roper Organization [Ref. 4] and the other by an AICPA, "MASBOKE" task force, response rates of which were 46% and 28% respectfully, the author felt that a 35% expected return rate would provide a statistically significant sample. Anonymous replies were solicited and respondents were told that all information provided by them would be considered confidential. Surveyed firms were provided the opportunity to indicate to the researcher, their desire to be sent a summary of the survey results.

#### C. SURVEY INTERVIEWS

The discussion will now review sampling done through personal interviews. Specifically, the discussion will address three overall data collection considerations: the premise for personal interviews; the nature of questions asked of practitioners; and the nature of questions asked of academicians.

#### 1. Premise for Personal Interviews

Indepth interviews were conducted with selected sole proprietor CPA practitioners and accounting academicians. These interviews were conducted in addition to and after the survey questionnaires were returned. The use of this type

sampling tool was premised upon the author's view that indepth interviews would allow discussion of various questions and points of interest not permitted within the limited framework of the questionnaire. Questions were verbally directed to practitioners in order to get a "feel" for issues of a general nature such as the desirability of specific firms to satisfy client management advisory demands, and the practitioner's view of ethical considerations germane to MAS. Those questions of a general nature, which were verbally asked of academicians, were intended to gather data related to current professional accounting curriculums as well as the degree of emphasis placed on development of a student's MAS skills.

All questions directed towards the respondents during the inteview were of the open-ended type. The author realized, that with this type of question, the data would be more difficult to analyze and generally less amenable to statistical testing than data from fixed alternative (i. e. nominal, ordinal or interval scaling measurement) type questions. It was thought; however, that the open-ended format could permit the author to tap the respondent's perception of the research topic and allow for additional probing by the interviewer. Also, with the use of open-ended questions, the author believed he would be better able to perceive when a question was misunderstood, allowing him the opportunity to repeat it or otherwise aid in its

clarification. Open-ended questions coupled with person-toperson interviews allowed the author to explain in more detail the purpose of the study and its significance. The interview survey method was intended to complement the more objective questionnaire, not to supercede it.

# 2. Nature of Questions Asked of Practitioners

The general nature of the questions asked was directed towards facilitation of a discussion. They were broad and designed to add "color" or dimension to the "black and white", skeletal objective questionnaire. Essentially, the interview discourse centered around the following questions:

- a. Do issues related to "professional ethics" and the CPAs requirement for "independence" influence the choice to offer and/or limit MAS activity?

  If so, what are the central issues and to what degree do they limit MAS activity?
- b. Are CPA practitioners adequately prepared by formal education or work experience to handle a wide range of MAS functions? If not, where can educational or work experience learning efforts be strengthened?
- c. Do sole proprietor CPA firms really "know" their client organizations sufficiently enough for them to be in a position to offer a wide range of MAS or should the scope of services be limited to

- issues relevant to accountant's understanding of the clients' operations?
- d. Do sole proprietor CPA firms differ with respect to how they define or perceive what constitutes MAS? That is, does the term MAS have a common and finite meaning between CPA practitioners?
- e. Assuming that MAS included services other than audits, tax work, mainta ning accounting records and preparation of financial statements, are CPAs willing to expand their activities into management advisory areas? If not, what are the reasons?
- f. Is there a general willingness for sole proprietor CPA firms to refer their clients for management advisory needs? If not, what are the major reasons for not doing so?
- g. Have professional accounting organizations (AICPA, California Society of CPAs, etc.) played an acceptable role in MAS standards setting. If not, how can standards be improved?

# 3. Nature of Questions Asked of Academicians

The author's data gathering interviews with academicians concentrated on the following general questions:

a. Currently, do public accounting curriculums adequately prepare students, at the bachelor degree level, to assume a meaningful professional role

- in MAS? Do accounting curriculums at the masters degree level adequately prepare students for MAS roles? If curriculums at either level lack adequacy, what improvements should be made?
- b. Are courses which are related to MAS, such as management sciences, electronic data processing, personnel, etc., offered to students on a purely "elective" basis or are they "built in" to the standard accounting curriculum?
- c. Are students at the bachelors or master degree levels provided specific knowledge pertaining to how the CPA profession operates, how one might conduct a MAS assignment and what MAS standards and procedures are currently followed by practitioners?
- d. Are individuals who graduate from an accounting program better qualified to move into MAS areas than individuals who graduate from a general business or general management program?
- e. Should colleges and universities attempt to develop programs which allow students to specialize in a specific area of MAS or should these programs be designed to produce MAS generalists?
- f. From an academic institution perspective, is there a general problem with the definition of

MAS? Is there a general consensus regarding what should be included in the scope of MAS?

#### D. SUMMARY

In this chapter the author has attempted to outline for the reader, the research methodology employed and the basis for its use in support of the study efforts. Specifically, this chapter has provided an overview of the methodology used to assess the willingnes of sole proprietor CPA firms to expand their current range of MAS activities, and to address resultant recommendations concerning the possible future direction and evolution of these activities. The author provided a review of both the questionnaire and personal interview sampling tools, along with an explanation for their design, use and possible statistical shortcomings.

In the next chapter, the author discusses the analysis of the data captured by these sampling devices. Answers relating to the returned questionnaires and personal interview questions will be presented, discussed, compared and analyzed. Differences in key questions, asked of the survey respondents and which were similiar to questions asked in previous studies, are been highlighted for the sake of comparison. Potential problems pertaining to MAS expansion will also be identified.

#### IV. RESEARCH FINDINGS

#### A. INTRODUCTION

The purpose of this chapter is to present an analysis of data which was captured by the sampling methods discussed in the previous section of this thesis report. Information provided by the survey questionnaires as well as personal interview questions have been presented, discussed, compared and analyzed. As was mentioned in the previous chapter, significant differences in key questions asked of the survey respondents and which were similiar to questions asked in previous studies have been highlighted for the sake of comparison. Potential problems pertaining to Management Advisory Services expansion have also been identified; however, conclusions and recommendations regarding these aspects have been deferred to the final chapter.

The emphasis of this chapter is limited to an analysis of the compiled data. There has been a conscious attempt by the author to minimize inference statements pertaining to the findings. The reader should be aware that this report's findings do not rely on a rigorous statistical analysis of the data content. For simplicity and conciseness of understanding, the author has chosen to present the research findings through the use of descriptive summaries, figures and tables.

#### B. SURVEY QUESTIONNAIRE FINDINGS

A review of the author's questionnaire findings, along with an analysis of the related data, have been keyed to the following general considerations:

- 1. Degree of Questionnaire Response.
- 2. Organizational Background Analysis.
- 3. Organizational Structure Analysis.
- 4. Client Base Composition Analysis.
- 5. Range of Professional Service Analysis.
- 6. MAS Activity Growth Rate Analysis.
- 7. Client MAS Demand Analysis.
- 8. Services Advertising Analysis.
- 9. Client Referral Analysis.

With the exception of the "Degree of Questionnaire Response", the above considerations have been keyed directly to those general areas of questionnaire interest, which were identified in the previous chapter dealing with the research methodology. Considerations pertaining to the analysis of personal interview questions are discussed later in this chapter.

#### 1. Degree of Questionnaire Response

The author's sole proprietor CPA firm questionnaire was mailed to 300 randomly selected California public accounting firms on 23 October 1981. Prospective respondents were allowed 10 days from receipt of the questionnaire to review it, answer the questions asked and return it to

the researcher via a pre-addressed envelope. By 6 November 1981, the author had received a total of 94 completed questionnaires. There were no further responses after this date.

The original sample size was reduced by a total of 16 due to the apparent relocation or disestablishment of certain practices. The postal authorities indicated that these 16 firms did not have forwarding addresses. Because of time constraints imposed on the author's research efforts, there were no attempts made to sample 16 additional firms. Accordingly, the sample size was reduced to a total of 284. A total of six unanswered questionnaires were received and anotated by the respondent regarding his or her intention of retiring from active practice. These six responses did not reduce the revised total sample size of 284 and were considered as non-responsive in all respects.

The 94 valid responses, coupled with the reduced sample size totaling 284 resulted in a net survey response rate of 33 percent. Computations used to determine this rate have been provided below in Table IV-1. The actual 33 percent response rate fell short of the expected 35 percent response rate. The author feels that the actual response rate is sufficient enough to permit statistically discernable inferences to be made from the data provided.

TABLE IV-1
- SOLE PROPRIETOR CPA FIRM SURVEY QUESTIONNAIRE RESPONSE RATE

Total sample size: 284 -Less; number of non-responses to		
"Return to Sender":  (16)  Total sample size:  -Less; number of non-responses to survey:  (190)  Total number responding to survey:  94  Survey response ratio:  94 ÷ 283 = .3309	Total number of questionnaires mailed:	300
-Less; number of non-responses to survey: (190)  Total number responding to survey: 94  Survey response ratio: 94 ÷ 283 = .3309	The state of the s	(16)
Survey: (190)  Survey response ratio: 94 ÷ 283 = .3309	Total sample size:	284
Survey response ratio: 94 ÷ 283 = .3309		(190)
•	Total number responding to survey:	94
•		

#### 2. Organizational Background Analysis

The findings related to the general organizational background of those sole proprietor CPA firms surveyed, assess the overall nature and extent of the practitioner's professional accreditation, experience levels and formal education. Information pertaining to the general organizational background aspects was provided by questions numbered 1, 2 and 7.

Question number 1 asked: "Are you a CPA in the State of California?" and requested the respondent to list any "Other accreditation (name)", that he or she may hold. One hundred percent (N=94) of those responding to this question answered "Yes" they were a CPA in the State of California. The 94 respondents, a total of four percent indicated that they held other accreditations in addition to the State of California certification to practice public accounting. Two individuals stated that they were also CPAs in the State of New York. One individual noted that he was also a CPA in the State of Nevada. None of the respondents listed accreditations other than that of a CPA. There were no references made to other professional certifications such as those for a registered professional engineer or licensed lawyer.

Question number 2 asked: "For what period of time has your firm or its predecessor been in business?" Answers to this question have been presented in summary fashion in Table IV-2 for the 94 respondents. Table IV-2 shows the range of total years; the number of respondents reporting the age of their practice; and the percentage of total sample reporting the specific range of practice age. Table IV-3 provides a comparison of practice age for sole proprietor CPA firms responding to question number 2 with that of practice ages determined by the Roper Organization, Inc. August, 1979, CPA survey of MAS practices. [Ref. 4] The

"Roper" survey sampled all sizes of practice units with the exception of the largest 50 firms. This survey mailed 2504 questionnaires to CPAs and produced 1,152 responses. Table IV-3 depicts the range of total years of practice and the percentage of total sample reporting. Responses to the author's "20 years up to 30" and "30 years or more" time categories listed in question number 2 have been combined into a range of "20 years or more." This combnation was made in order to facilitate comparison between the two surveys.

In question number 7, survey data were collected from respondents on the prevalence of degree fields and highest degree earned by sole proprietor CPA practitioners. Ninetysix percent (N=90) of those individuals responding to the survey indicated the type and level of degree. These responses have been summarized in Table IV-4. From the summary, it appears that the largest class of degrees held by the respondents is the bachelor's degrees, followed by the master's degrees and ending with the doctorates as the smallest class. Among the bachelor's degrees, the field of accounting was most predominant. Within the master's degrees, business (other than accounting) was reported the most. The field of law ranked highest in the doctorates' class.

In terms of total percentages of those surveyed, six percent indicated they did not have a formal college degree.

TABLE IV-2
- SOLE PROPRIETOR CPA FIRM SURVEY RANGE OF FIRM PRACTICE AGE

RANGE OF TIME	NO. OF RESPONSES	%OF TOTAL
Less than 5 years	19	20%
5 years up to 10 year	irs 25	27%
10 years up to 20 ye	ears 21	22%
20 years up to 30 ye		19%
30 years or more	11	12%

# RANGE OF FIRM'S PRACTICE AGE: COMPARISON OF AGGREGATE CPA ORGANIZATION TYPES WITH STRICTLY SOLE PROPRIETOR CPA FIRMS TABLE IV-3

RANGE OF TIME	% OF TOTAL		
	(ROPER SURVEY)	(AUTHOR'S SURVEY)	
Less than 5 years	14%	20%	
5 years up to 10	13%	27%	
10 years up to 20	27%	22%	
20 years or more	44%	31%	

Conversely, 88 percent of the respondents had, as a minimum, a bachelor's degree. Degree levels for 51 percent surveyed were limited to a bachelor's degree; 29 percent had a bachelor's plus a master's degree; and 4 percent had received degrees up through the doctorate level. The various levels of degrees held by the respondents have been summarized in Table IV-5. In Table IV-6, the levels of degrees held by respondents are compared to the degree fields.

TABLE IV-4
- SOLE PROPRIETOR CPA FIRM SURVEY EDUCATIONAL BACKGROUND

DEGREE FIELD	*DEGI	REE	LEVEL
	В	M	D
-Business (accounting)	70	9	_
-Business (management)	2	4	-
-Business (financial)	1	9	-
-Business (marketing)	-	2	-
-Economics (other than industrial)	2	1	-
-Engineering (other than industrial)	1	-	-
-Liberal arts/Humanities	2	-	-
-Behavior sciences	2	-	1
-Other:			
. Physics	1	_	1
. German	1	-	-
. Nursing	1	-	-
. Political science	-	1	-
. Taxation	-	5	-
. Law	-	-	3

= master's
= doctorate

TABLE IV-5
- SOLE PROPRIETOR CPA FIRM SURVEY LEVEL OF FORMAL DEGREES HELD

LEVEL OF DEGREE HELD	NO. OF RESPONSES	% OF TOTAL
-No college degree	6	6%
-Bachelors only	48	51%
-Bachelors & Masters	27	29%
-Bachelors, Masters and Doctorate	4	4%

TABLE IV-6
- SOLE PROPRIETOR CPA FIRM SURVEY NATURE OF FORMAL DEGREES HELD

DEGREE FIELD (B)	OF TOTAL
-Business (accounting)	87%
-Business (management)	1%
-Economics	3%
-Engineering (other than industrial	
-Liberal arts/humanities	3%
-Behavior Sciences	18
-Other (Physics, German, & Nursing)	4 %
DEGREE FIELD(M) %	OF TOTAL
	OF TOTAL
-Business (accounting)	
	30%
-Business (accounting) -Business (management) -Business (financial) -Business (marketing)	30% 11% 33% 7%
-Business (accounting) -Business (management) -Business (financial)	30% 11% 33% 7%
-Business (accounting) -Business (management) -Business (financial) -Business (marketing) -Other (Political Science & Taxatio	30% 11% 33% 7%
-Business (accounting) -Business (management) -Business (financial) -Business (marketing) -Other (Political Science & Taxatio	30% 11% 33% 7% n) 19%

#### 3. Organizational Structure Analysis

Questions numbered 3, 4, 5, 6 and 12 provided findings pertaining to the general rganizational structure characteristics of those sole proprietor CPA firms surveyed. These findings assess basic structural considerations such as the degree of a firm's practice decentralization, the size of the professional staff, extent of both professional and non-professional staff dedicated to the provision of MAS, as well as the extent of MAS function separation within firm's organization.

Question number 3 asked: "How many separate offices does your firm maintain?" The respondents were permitted to indicate if they maintained "1" office; "2 or 3" offices; or "4 or more" offices. Ninety-Nine percent (N=93) of the total 94 survey respondents provided an answer to this question. Of those responding, 90 percent maintained only one office; 9 percent maintained two or three offices; and no sole practitioner responding maintained four or more offices. The Roper Organization Inc., MAS survey previously mentioned, asked their respondents to provide the same information concerning the number of offices maintained. survey was not limited to sole proprietor CPA firms. comparison sake, Table IV-7 provides a summary of results pertaining to number of offices maintained by those responding to the "Roper" survey as well as those responding to the author's sole proprietor CPA firm survey.

TABLE IV-7

RANGE OF OFFICES MAINTAINED: COMPARISON OF

AGGREGATE CPA ORGANIZATION TYPES WITH

STRICTLY SOLE PROPRIETOR CPA FIRMS

NO OF OFFICES MAINTAINED	% OF	TOTAL
	(ROPER SURVEY	(AUTHOR'S SURVEY)
1	79%	90%
2 or 3	18%	9%
4 or more	2%	0%

Question number 4 asked: Approximately, how many individuals in your firm (in all offices) render professional services, of any kind (independent audits, income tax work, or management advisory services)?" Answers to this question was provided by 100 percent (N=94) of the survey respondents. These answers have been summarized in Table IV-8.

An assessment of the number of individuals actively engaged in delivery of MAS was obtained through question number 5. In this question, practitioners were asked: "How many individuals within your firm devote more than 50 percent of their productive time to management advisory services?" Again, 100 percent (N=94) responded to this

TABLE IV-8

- SOLE PROPRIETOR CPA FIRM SURVEY 
NUMBER OF PROFESSIONAL SERVICE PROVIDERS

WITHIN FIRM

O. OF PROFESSIONAL SERVICE PROVIDERS	%OF TOTAL
<del></del>	
1	37%
2-5	48%
6-10	9%
11-25	1%
26-30	_
31 or more	1%

question. A large majority (81 percent) of those responding indicated that no individual within the firm devotes more than 50 percent of his or her time to MAS. Nine-percent stated the one individual spends more than 50 percent of his/her time on MAS activities. Eleven-percent of those responding had 25 people involved with MAS more than 50 percent of their productive time. Table IV-9 shows the summary findings related to the number of people within the sole proprietor firm who spend more than half of their time on MAS functions.

Question number 6 was designed to assess the number of CPAs in the firm, excluding the principal of the firm, who were involved in MAS. Question number 6 specifically asked:

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TABLE IV-9

- SOLE PROPRIETOR CPA FIRM SURVEY 
NUMBER OF INDIVIDUALS INVOLVED IN MAS MORE

THAN 50% OF THEIR PRODUCTIVE TIME

O. INDIVIDUALS	<b>*OF TOTAL</b>
NONE	81%
1	9%
2-5	11%
6-10	-
11-25	-
26 or more	-

Services, how many are CPAs?" Sixty-nine percent (N=65) of those surveyed answered this question. Of those individuals providing an answer, 71 percent responded that one individuals were CPAs; 22 percent indicated that two individuals were CPAs; and 6 percent indicated that three individuals other then themselves were CPAs involved in MAS. The last question dealing with organizational structure aspects was question number 12. This question asked: "Are management advisory services a separate function and a formal department in your firm or are they incidental to and an integral part of your overall service?" Ninety-five percent (N=89) of those surveyed responded, all of which said that MAS functions were "Part of overall service." Essentially, these firms did not differentiate MAS as a separate function.

#### 4. Client Base Composition Analysis

Findings related to the typical client base composition of those sole proprietor CPA firms surveyed were provided by questions numbered 8 and 9. Question number 8 provided information regarding the nature of client ownership types; that is, it assessed to what extent clients were organized as sole proprietorships, partnerships or publicly owned/closely held companies. Answers to this question are presented in summary fashion for 100 percent (N=94) of those surveyed. Table IV-10 shows a ranking of client ownership types by percent of total respondents who serve clients having a specific client ownership type; the degree or extent to which each type of client ownership type comprises the percent of the respondent's total client base; and the arithemetic mean plus the standard deviation for percent of clients within each ownership type.

Table IV-10 shows that 100 percent of the respondents surveyed deal with sole proprietorship clients and that on the average, this type of client comprises approximately 43 percent of their total client base. Ninety-five percent of those surveyed have clients who are organized as partnerships, which on the average, makes up approximately 17 percent of their total client base. Sixty-six percent of those responding indicated that publicly owned/closely held companies comprise on the average, approximately 26 percent of their total client population.

TABLE IV-10
- SOLE PROPRIETOR CPA FIRM SURVEY CLIENT BASE BY OWNERSHIP TYPE

RANK ING	OWNERSHIP TYPE	% OF TOTAL CLIENT BASE	% OF TOTAL RESPONDING
1	Sole proprietorship	0 to 20%	(21%)
(100%)	mean = 43% std. deviation = 26%	21 to 40%	(28%)
	std. deviation = 266	41 to 60%	(20%)
		61 to 80%	(21%)
		81 to 100%	(9%)
2 (95%)	Partnership mean = 17% std. deviation = 11%	21 to 40%	
	std. deviation = 116	41 to 60%	(4%)
		61 to 80%	( - )
		81 to 100%	( - )
3 (94%)	Publicly owned closely held company	0 to 20%	(41%)
	mean = 26% std. deviation = 24%	21 to 40%	(11%)
	stu. deviation - 244	41 to 60%	( 5%)
		61 to 80%	(6%)
		81 to 100%	( 2%)

Question number 9 assessed the general size of the client population served by the sole proprietor CPA firms surveyed. Question number 9 asked "Of your total client base, please

indicate the relative size of these organizations from the viewpoint of their total operating revenues." The answers to this question have been summarized in Table IV-11. This summary shows a ranking of client size by percent of total respondents who serve clients within a specific operating revenue range; the extent to which each client operating revenue range comprises the percent of the respondent's total client base; and the arithmetic mean plus the standard deviation for percent of clients within each client operating revenue range.

As can be seen in Table IV-11, 85 percent of those surveyed deal with clients in the operating revenue range between \$0 to 100,000 and that on the average, this size of client organization comprises approximately 28 percent of the CPA's total client base. Eighty-four percent of those surveyed have clients operating revenues in the \$100,000 to \$500,000 range, which on the average, accounts for approximately 30 percent of their total client base. Seventy-one percent of the respondents have clients with operating revenues ranging from \$500,000 to \$1,000,000 and on the average, this size client constitutes approximately 21 percent of the total client population. Sixty-nine percent of the CPA firms surveyed indicated that they deal with client firms having operating revenues of \$1,000,000 to \$10,000,000 and on the average, this size client makes up approximately 22 percent of the total client base. Twenty-eight percent

noted that they handle clients with operating revenues over \$10,000,000 and that on the average this size of client comprises 12 percent of their total client population. Question number 9 assessed only client size in terms of operating revenues. Data pertaining to other client size measurement factors such as, the number of people employed, units produced, customers servered, etc., were not addressed in the questionnaire.

#### 5. Range of Professional Services Analysis

Findings regarding the general range of the sole proprietor CPA firm's professional services; the extent of the public accounting firms total service specialization; the scope of MAS activities; the MAS billing methods used; the degree of MAS activity specialization; the nature of MAS activity specialization; the nature of MAS activity specialization and; the assessment of the practitioner's qualifications relative to provision of MAS were provided by questions numbered 10, 11, 13, 19, 20 and 29.

Question number 10 asked: "Roughly what percentage of your firms total professional time is accounted for by each of the following functions below (Percentages should add to 100%)?" Those surveyed were asked to note the percentage of their time dedicated to: "Audits," "Taxes," "Accounting Services (maintaining accounting records and preparation of financial statements)", "Management Advisory Services" and "Other Services." Eighty-one percent (N=76) of those surveyed answered question number 10. The total question

TABLE IV-11
- SOLE PROPRIETOR CPA FIRM SURVEY CLIENT BASE BY SIZE

RANKING	CLIENT OPERATING REVENUES	% OF TOTAL CLIENT BASE	% OF TOTAL RESPONDING
1	\$0 TO \$100,000.	0 to 20%	(44%)
( 85%)	mean = 28%	21 to 40%	(21%)
	std. deviation = 25%	41 to 60%	( 7%)
		61 to 80%	( 5%)
		81 to 100%	( 7%)
2	\$100,000. TO \$500,000.	0 to 20%	(28%)
(84%)	mean = 31% std. deviation = 18%	21 to 40%	(36%)
	std. deviation = 184	41 to 60%	(15%)
		61 to 80%	( 5%)
		81 to 100%	( - )
3	\$500,000. TO \$1,000,000.	0 to 20%	(40%)
(71%)	mean = 21% std. deviation = 14%	21 to 40%	(22%)
	300. G4418010H - 144	41 to 60%	( 7%)
		61 to 80%	( 1%)
		81 to 100%	( - )
4	\$1,000,000. TO \$10,000,000	0 to 20%	(50%)
(69%)	mean = 22% std. deviation = 21%	21 to 40%	(12%)
	940, 444,4610 114	41 to 60%	( 2%)
		61 to 80%	( 2%)
		81 to 100%	( 3%)
5	over \$10,000,000	0 to 20%	(26%)
(28%)	mean = 12% std. deviation = 6%	21 to 40%	( 2%)
		41 to 60%	( - )
		61 to 80%	( - )
		81 to 100%	( - )

responses have been averaged for each function and depicted in Table IV-11. The five functions have been ranked according to the percentages of total responses and compared to responses to a similiar question in the "Roper" Survey. The function of "Other Services" has not been broken down by specific functional areas.

TABLE IV-12
- SOLE PROPRIETOR CPA FIRM SURVEY PERCENTAGE OF TIME DEDICATED TO SERVICE FUNCTION

RANKING	<u>FUNCTION</u>		<pre>% OF TOTAL ) (AUTHOR'S SURVEY)</pre>
4	Audits	(25%)	(6%)
2	Taxes	(30%)	(37%)
1	Accounting Services (material training accounting representation of finance statements	cords, ial	(39%)
3	Management Advisory Services	,	(13%)
5	Other Services		(5%)

Question number 11 presented findings related to the scope of total MAS activities for those firms responding to the survey. This question asked the individual to "Please indicate those component service areas of management advisory service which your firm becomes actively involved with by placing a check mark beside any of the 45 listed component areas which were applicable to his/her situation.

The 45 component areas listed were the same as those designated as significant by 40 percent or more firms responding to a MAS body of knowledge and examination (MASBOKE) task forces of the American Institute of Certified Public Accountants survey conducted in July 1974. Unlike the author's survey, the MASBOKE study surveyed all categories of CPA firms (i.e. professional corporations, partnerships, etc.), some with full staffs who specialize in MAS. Ninety percent (N=95) responded to question number 11. The answers to this question have been summarized in Table IV-13.

Question number 13 asked those firms surveyed to indicate if their clients are billed for MAS as a separate charge or as part of the total services provided without a separate identification. This same question was also asked of those firms surveyed by the Roper Organization, Inc. in August, 1974. [Ref. 4] Ninety percent (N=85) of those responding to survey answered question number 13. The answers have been summarized and compared to the findings provided by the "Roper" survey. This summary has been shown in Table IV-14. Thirty-four percent of those surveyed by the author's questionnaire billed for MAS separately as opposed to thrityeight percent of the "Roper" survey which billed MAS as a separate charge. Fifty-six percent of those answering the author's questionnaire billed for MAS as part of the total service charge. Sixty percent of the "Roper" survey

### TABLE IV-13 - SOLE PROPRIETOR CPA FIRM SURVEY VARIETY OF MAS PERFORMED

A COMPONENT	
* COMPONENT	* COMPONENT
38%accounts payable	40% inventory control
41% accounts receivable	53% lease or buy analysis
	40% long-range financial
45% acquisitions, mergers,	planning
and divestments	24% long-range planning
67% annual financial plan-	7% management audit
ning and budgeting	27% management controls and
16% applications software	report
development	2% order entry
16% billing and credit	16% organization structure
61% cash management	and policy
33% clerical systems and	33% payroll and labor dis-
forms	tribution
29% clerical work methods	9% performance reporting
and simplification	12% policy and procedure
22% computer operations	manuals
evaluations	24% product profitability
33% cost accounting and	24% property
allocation	13% report design and insta
5% cost standards	lation
2% customer order process-	- 38% return on investment
7% data communications	studies
24% economic and feasibil:	ity 22% revenue accounting
studies	20% sales forecasting, des
17% equipment evaluation	plans,
-	15% software evaluation
43% financing, selecting	26% systems and procedures
sources of capital	design, analysis and
16% form design and in-	documentation (EDP a
stallation	manual)
15% fund accounting	
63% general accounting	28% systems and procedures stallations (EDP and
nie Oppera: Arroninging	TELLIFICATION (NID AND
•	
6% goals and objectives	manual  11% systems test and conve

respondents indicated that MAS charges were not separated and included in the total accounting services bill.

TABLE VI-14

## MAS BILLING METHOD: COMPARISON OF AGGREGATE CPA ORGANIZATIONS TYPES WITH STRICTLY SOLE PROPRIETOR CPA FIRMS

MAS BILLING METHOD:	<u> </u>	F TOTAL
	(ROPER SURVEY)	(AUTHOR'S SURVEY)
As a seperate charge	38%	31%
As part of total service without separate identif		
cation	60%	59%

Question number 19 asked: "Does your firm tend to specialize in certain areas of Management Advisory Services?" Ninety percent (N=93) of those surveyed responded to this question. Of those responding, 24 percent said they did specialize in certain areas of MAS. Seventy-four percent responded that their firm did not specialize in certain areas of MAS.

Question 20 was related to the above question. It asked: "If the answer to the above question is marked 'Yes,' please briefly indicate below, those areas of your firm's specialization." Twenty-five percent (N=24) of the surveyed

firms provided responses, which have been summarized in Table 4-15.

TABLE IV-15
- SOLE PROPRIETOR CPA FIRM SURVEY AREAS OF MAS ACTIVITY SPECIALIZATION

SPECIALIZATION NO. O	F RESPONSES	% OF TOTAL
Advertising agencies	1	1%
Agricultural concerns	1	1%
Assett management	1	1%
Business valuation	2	2%
Banking industry	1	1%
Budgeting	1	1%
Cash planning/management	4	4 %
Cost analysis	1	1%
Data processing	1 1 2 1	1%
Entertainment industry	2	2%
Estate planning	1	1%
FCPA audits	1	1%
Financing	1 2 2	2%
Investment planning		2%
Long-range financial planning	j 4	4 %
Medical groups	1	1%
Memorial parks	1	18
Mergers/acquisitions	2	2%
Mortgages	2 1 2 2	1%
Profit Planning	2	2%
Real Estate Planning	2	2%
Restaurant operations	1	1%
Small business/ professional		
services	1	1%
Systems/procedures	2	2%
Tax planning	1	18

In Table IV-15 the nature of each specialization is indicated, along with the number responding to a specific specialization and the percentage of the total sample reporting their MAS specialization(s).

Question number 29 was the last question related to an assessment of the range of professional services. It asked: "Based on your education and professional experience, do you feel that CPAs are in a better position to provide Management Advisory Services than any other professional 'management consultant'?" One-hundred percent (N-94) of those surveyed answered this question. Forty-seven percent answered 'Yes' CPAs are in a better position to provide MAS than any other professional 'management consultant.' Seven percent said 'No', CPAs were not in a better position. Forty-six percent indicated that CPAs 'Maybe' are in a better position to provide MAS to their clients.

#### 6. MAS Activity Growth Rate Analysis

The findings related to the sole proprietor CPA firm's MAS activity growth rate assessed both past and projected MAS growth; the relative desire to increase the range of MAS; the practitioner's desire to increase his or her client base through MAS; the extent of factors limiting MAS expansion; and the desire for firms to specialize in MAS engagements. Data pertaining to the area of MAS activity growth was gathered through survey questions numbered 14, 15, 16, 17, 18 and 28.

Beginning with question number 14, those firms surveyed were asked to: "Please indicate how Management Advisory

Beginning with question number 14, those firms surveyed were asked to: "Please indicate how Management Advisory Services have changed as a percentage of your firms total business over the last five years." Table IV-16 summarizes the responses from 92 percent (N=87) of the total firms surveyed and who answered question number 14. The ranges of increase have been shown along with both the number of respondents and percentage of total sample reporting a historical MAS activity rate increase.

TABLE IV-16

- SOLE PROPRIETOR CPA FIRM SURVEY 
PERCENTAGE OF TOTAL CPA BUSINESS GROWTH

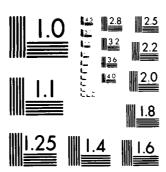
(OVER LAST 5 YEARS) WHICH RESULTED FROM

MAS ENGAGEMENTS

% INCREASE	NO. OF RESPONSES	% OF TOTAL
0 to 5% increase	(43)	46%
6 to 10%	(16)	17%
11 to 20%	(18)	19%
21 to 50%	(7)	7%
Greater than 50%	(3)	3%

Question number 15 looked at the expected MAS growth rate for the firms surveyed. Question number 15 asked: "As a

NAVAL POSTGRADUATE SCHOOL MONTEREY CA ANAMAGEMENT ADVISORY SERVICES BY CPA'S. A SURVEY OF CURRENT EXPA--ETC(U) DEC 81 D & HICKMAN AD-A115 235 UNCLASSIFIED NL 2 ≈ 3 %525



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percentage of your firm's total business, at what rate do you expect Management Advisory Services to grow (assuming you do not anticipate on overall decline)?" Ninety percent (N=85) of those surveyed answered this question. The responses have been summarized and displayed in Table IV-17. The ranges of expected MAS activity increase have been shown, together with both the number of respondents, and percentage of total sample reporting an expected MAS activity increase. Respondents to the "Roper" survey indicated that on the average MAS activity would grow at an annual rate of 10%. This percentage can be used for comparison of information in both Table IV-16 and IV-17.

TABLE IV-17
- SOLE PROPRIETOR CPA FIRM SURVEY PROJECT MAS ACTIVITY GROWTH RATE

* INCREASE	NO. OF RESPONSES	% OF TOTAL
0 to 5% increase-	(32)	34%
6 to 10%	(26)	28%
11 to 20%	(15)	16%
21 to 50%	(11)	12%
Greater than 50%	( -)	_

Question number 16 asked the firms surveyed to indicate their relative desire to increase the <u>range</u> of MAS (i.e.

increase the variety of services provided to their clients). Ninety-four percent (N=88) of those responding to the survey answered this question. The findings provided by this question have been summarized in Table IV-18. This table shows a relative ranking of responses on a continium scale numbered 1 through 10. The number 1 represents no desire on the part of those responding to increase the range of MAS. At the opposite end of the scale, a number 10 is assigned to reflect an extremely high desire for those respondents to increase the range of MAS. The average rating for all respondents was approximately 4.59 with a standard deviation of 2.65. Percentage of the total sample has been provided along with each numerical rank.

TABLE IV-18
- SOLE PROPRIETOR CPA FIRM SURVEY RELATIVE DESIRE TO INCREASE RANGE OF MAS

	esire de la company de la comp						crease	igh de: range	
1	2	_3	_4	5	6	7	8	9	_10
(11%)	( 3%)	(17%)	(9%)	(15%)	(10%)	(10%)	(13%)	( 1%)	( 7%)
Mean	= 4.59	(i.e.	averaç	ge rani	king)				
std.	deviat	ion = 3	2.65						

Question number 17 asked those survey to expres their relative desire to increase their firm's present client base (i.e. number of clients) through the offering of MAS. Ninety-eight percent (N=92) of those firms responding to the questionnaire answered this question. Their answers have been summarized in Table IV-19. It shows, like the previous question, a relative ranking of responses on a continium scale numbered 1 through 10. the number 1 represents no desire on the part of those responding to increase their client base through the offering of MAS. Number 10, at the opposite end of the scale, is intended to represent an extremely high desire by those respondents to increase their client base through the offering of MAS. The average rating for all respondents was approximately 4.44 with a standard

TABLE IV-19
- SOLE PROPRIETOR CPA FIRM SURVEY RELATIVE DESIRE TO INCREASE CLIENT BASE
THROUGH THE OFFERING OF MAS

	esire ( ease c		ase					igh des cliens	
1	2	3	_4	5	6	_7	8	_9	_10
(11%)	( 6%)	(17%)	(11%)	(20%)	( 5%)	(9%)	(11%)	( 2%)	( 6%)
Mean :	= 4.44	(i.e.	averaç	je rani	(ing)				
stđ.	deviat	ion = 2	2.65						
							<del></del>		

deviation of 2.59. Like the previous table, the percentage of the total sample has been provided in Table IV-19, along with each numerical rank.

In question number 18, those surveyed were asked to indicate one or more factors which might be perceived as factors that may limit a CPA firm's ability to expand into MAS or to increase the current range of management services. Ninety-eight percent (N=92) of those responding to the survey answered this question. The summarized answers are provided in Table IV-20. The five reasons pre-selected and made part of question number 18 have been shown as well as other reasons identified by the respondents. A percentage of the total respondents has been assigned to each limiting factor along with the number of individuals responding. percentages have not been shown for each specific "other" reason; however, the number responding has been placed beside each factor noted by respondents.

Question number 28 asked: "In your opinion, should sole proprietor CPA firms be adequately prepared to handle a wide range of Management Advisory Services or limit their activities to specific specialized areas within the general management field?" Seventy-three percent (N=69) answered the portion of the question concerning the wide range of MAS. Of those responding, 49 said "YES", and 27 percent said "No", as to whether CPAs should be prepared to deal with a wide range of MAS. Seventy-six (N=71) percent of the

individuals responding to the question answered the portion dealing with <u>specific</u> specialized areas within the general management field? Fifty percent responding to this question segment said "YES" and 23 said "No", as to whether CPAs should limit their MAS activities to very specific and

TABLE IV-20
- SOLE PROPRIETOR CPA FIRM SURVEY FACTORS LIMITING MAS GROWTH

LIMITING FACTOR	NO. OF RESPONDENTS	% OF TOTAL
Lack of adequate internal sta	aff(62)	66%
Insufficient capital and fact	ilities(13)	14%
Inadequate client demand for Advisory Services		33%
Insufficient staff training/e	education(24)	26%
Incompatibility with "independent professional ethics		9%
Other reason(s) (please spec	ify)(17)	18%

(8) Practitioner has no desire to not expand; (3) Practitioner wants to retire from practice; (1) Practitioner finds it difficult to "sell" clients on MAS; (1) Practitioner feels MAS offers a potential high risk/potential liability; (1) Practitioner feels clients lack understanding of MAS benefits; and (1) Practitioner feels MAS results in a conflict of interest.

specialized areas. The question did not permit the respondents to state the basis for the manner in which they chose to answer the question.

#### 7. Client MAS Demand Analysis

Findings regarding the degree of the sole practitioner's client demand for MAS were assessed by questions numbered 21 and 22. Question number 21 asked: "In your opinion, is there a problem of recognition by your client organizations of the need for supplemental management advice?" Ninety-eight percent (N=92) of the respondents answered this question. Twenty-eight percent said "YES", 27 percent said "NO", and 46 percent said that "sometimes" their clients face a problem related to the recognition of the need for supplemental management advice.

Question number 22 asked: "If you firm offers Management Advisory Service (regardless of extent or area(s) of specialization), is it necessary for you to "educate" your clients regarding your skills and the benefits that can be derived if they retain your firm for management consultant needs?" Ninety-four percent (N=88%) surveyed responded to this question. Fifty-six percent answered "YES", 14 percent answered "NO", and 23 percent answered that "Sometimes" it was necessary for them to educate their clients regarding the CPA's skills and the benefits to be derived from MAS.

#### 8. Services Advertising Analysis

Findings which dealt with advertising professional service considerations were provided by questions numbered 23, 24 and 25. These three questions addressed specific advertising aspects such as: the nature of advertising efforts by sole proprietor CPA firms; the impact of advertising on total services offered by the public accountant; and the impact of advertising on strictly MAS activities.

Question number 23 asked if the CPA firm adertises for performance of: Independent Audit Work; Tax Services; Accounting Services (maintaining accounting records and preparing financial statements); Management Advisory Services; and/or other services? The response rate for this question varied among the types of services. One hundred percent (N=94) of those surveyed responded to at least one portion of the question. The responses have been summarized in Table IV-21. Specific areas of service work have been listed with the accompanying number of individuals responding, along with the percent of total respondents for each service work classification.

Question number 24 asked those firms who indicated in question number 23 that they did advertise their services, to answer if they <u>had found</u> advertising to be beneficial from the viewpoint of increasing the overall office work-load. Of those responding to the question (N=19), 47 percent said "YES", 16 percent answered "NO", and 37 percent

said that they "Cannot determine" the benefits resulting from advertising.

TABLE IV-21
- SOLE PROPRIETOR CPA FIRM SURVEY EXTENT OF SERVICES ADVERTISING

TYPE OF SERVICE	* 8	NR		<u>*</u>	NR
Independent Audit WorkYes	3 %	(3)	No	94%	(88)
Tax ServicesYes	10%	(9)	No	888	(83)
Accounting Services (maintining accounting records, preparing					
financial statementsYes	10%	(9)	No	90%	(85)
Management Advisory ServicesYes	6%	(6)	No	94%	(88)
Other ServicesYes	3 %	(3)	No	95%	(89)
* % = PERCENT OF TOTAL RESPONDENTS					

Question number 25 asked: "In your opinion, can advertising be used as an effective means of helping a CPA practitioner expand his or her Management Advisory Service activities?" Ninety-five percent (N=89) of the survey respondents answered this question. Of those responding, 48 percent answered "YES", 12 percent said "NO" and 25 percent indicated that they "Cannot determine" if advertising can be used as an effective means of expanding MAS activities.

# 9. Client Referral Analysis

The questionnaire survey provided findings related to the relative desire of sole proprietor CPA firms to refer their clients for MAS needs which the public accounting firm may not itself be able to satisfy. Findings germane to client referral were provided by questions numbered 26 and 27.

Question number 26 asked: "If your clients have Management Advisory Service needs of a nature which may be unique or beyond your area of expertise, have or would you refer these clients to: other CPA firms which possess the desired level of expertise?; other professionals, colleges/ universities, or equipment suppliers?" Ninety-eight percent (N=92) of the respondents answered the first part of the question. Eighty-nine percent (N=84)of the respondents answered to the second part. Of those answering the first part of the question, 69 percent said "YES", 12 percent said "NO" and 17 percent answered that "Sometimes" they refer clients to other CPA firms which possess the desired level of expertise. Fifty-nine percent answering the second part of the question said "YES", six percent said "NO" and 27 percent indicated that "Sometimes" they refer clients to other professionals, colleges/universities, or equipment suppliers.

Question number 27 asked: "If your firm does not normally refer clients for Management Advisory needs, please

indicate a general reason for not doing so." Eleven percent (N=10) of the survey respondents answered this question. The answers have been summarized in Table IV-22. In this table, the specific reasons for proatitioners not referring clients have been shown along with the number and percent of total respondents for each reason listed. numbers.

TABLE IV-22
- SOLE PROPRIETOR CPA FIRM SURVEY REASONS GIVE FOR NOT REFERRING CLIENTS
WITH MAS NEEDS

REASONS	NO, OF RESPONSES	% OF TOTAL
-Practitioner can clients' MAS need	satisfy all of is(6)	7%
-Practitioner has for MAS from clie	had no requests	2%
	"lost" his or her MAS referral(1)	1%
-Practitioner is not aware of services which other may have to offer his clients(1)		1%

#### C. SURVEY INTERVIEW FINDINGS

The discussion which follows, concentrates on the general findings provided by interviews conducted by the author with selected sole proprietor CPA firm practitioners as well as accounting academicians. Findings provided by these interviews are general. Meaningful statistical inferences can

not be drawn from the interview data. The interview data can; however, provide the reader with a "feel" for how some practitioners and academicians view certain aspects of MAS activity. The discussion of the interview findings will begin first, with those findings provided by the practitioner interviews, and followed by a presentation of findings generated by the academician interviews.

# 1. Selected Practitioner Interview Findings

As was noted in the previous chapter, the general nature of questions asked of practitioners during the interviews was directed towards facilitation of a discussion. These interviews were generally short in duration and free form in nature. The general questions asked practitioners, along with summarized responses, have been provided below:

# Question:

Do issues related to "professional ethics" and the CPA's requirement for "independence" influence the choice to offer and/or limit MAS activity? If so, what are the central issues and to what degree do they limit MAS activity?

#### Answer:

Those practitioners interviewed did not view anything unethical. Performance of MAS engagements was compared to the CPAs accomplishment of independent audit work. Practitioners felt the issue of ethics would not cause an operational problem if public accountants pursued MAS engagements with the same objectivity and independence

employed during audits. Those interviewed generally agreed that if a practitioner follows the MAS practice standards adopted by the AICPA the question of ethics becomes mute. These same individuals thought that ethical considerations are only a problem if the CPA becomes involved in the clients' decision-making process. Most of those responding also felt that the issues related to ethics can be minimized if the CPAs do not attempt to perform MAS engagements of a nature that the accountant may not be trained to deal with.

## Question:

Are CPA practitioners adequately prepared by formal education or work experience to handle a wide range of MAS functions? If not, where can educational or work experience learning efforts be strengthened?

#### Answer:

Most respondents felt that graduates from an accredited college or university, who has graduated from school within the last 10-15 years, probably qualify to handle most MAS engagements. They felt that older graduates may not have by formal education, the general knowledge related to organizational theory, EDP systems, etc. Others felt; however, that it was the "older" practitioner who was more qualified to provide MAS because of his or her experience with practical experience with "real" management systems. Most agreed that it was the "older" practitioners

who "knew" their clients' operation the best. Some felt that this knowledge of their clients operations was a prerequisite for delivery of effective MAS. Other practitioners of all ages disagreed with this point.

## Question:

Do sole proprietor CPA firms really "know" their client organizations sufficiently enough for them to be in a position to offer a wide range of MAS or should the scope of services be limited to issues relevant to accountant's understanding of the clients' operations?

#### Answer:

Most of those who answered this question stated "YES", CPA firms really do "know" the'r clients well enough for them to provide a wide range of MAS. They all agreed that a significant amount of knowledge regarding their client's operation is gained through the accomplishment of more traditional accounting functions such as setting up accounting records, performing audits, tax work, etc. One practitioner said that "his clients talk to him about their operations in the same manner they do with their lawyers", and from these discussions "a CPA gains considerable insight into the problems facing an organization." There were mixed reactions to the question of limiting the scope of MAS to issues pertaining to the accountants understanding of the clients operation. Some said the CPA should limit the scope of services. Other's contended that most accountant's have

a good understanding general of business systems and their operating environments. Accordingly, they see the accountant as one who can adapt and provide positive results regardless of his/her understanding of the client's operations.

#### Question:

Do sole proprietor CPA firms differ with respect to how they define or perceive what constitutes MAS? That is, does the term MAS have a common and finite meaning between CPA practitioners?

#### Answer:

Of those interviewed, most agreed that the term MAS has a definite meaning among professionals; however, the term was not associated by most to a finite listing of functions or business areas. Some stated that "they have been performing MAS for years but did not refer to these services as such." These services were viewed as strictly accounting functions.

## Question:

Assuming that MAS included services other than audits, tax work, maintaining accounting records and preparation of financial statements, are CPAs willing to expand their activities into management advisory areas? If not, what are the reasons why?

#### Answer:

There were mixed reactions to this question. Some practitioners contended their desire to expand their services was constrained by resources (i.e. people, equipment, time, etc.). Others said that their practice "keep them busy enough" and therefore, they have no desire to expand. Still others did see an appreciable client demand which may require them to expand their range of current services into MAS activities.

## Question:

Is there a general willingness for sole proprietor CPA firms to refer their clients for management advisory needs? If not, what are the major reasons for not doing so?

#### Answer:

Most who answered this question could not confirm that there was a "general willingness" among practitioners to refer clients. Some said that they have referred clients to other CPA firms and have had clients referred to them. It was impossible to determine from the interviews the exact extent of client referral. Major reasons given for not referring clients were that: the practitioner could satisfy all of the client's service demands; the practitioner does not refer clients to other CPAs but to "specialists" such as those dealing with EDP, personnel, etc.; and a few were "afraid" of losing clients to other CPA firms.

## Question:

Have professional accounting organizations (AICPA, California Society of CPAs, etc.) played an acceptable role in MAS standards setting. If not, how can standards be improved?

## Answer:

In general, most felt that the professional accounting organizations played an acceptable role in MAS standards. A few said the standards were too limiting or not specific enough, especially in the area of independence and ethics considerations.

# 2. Accounting Academician Interview Findings

Findings obtained from the author's interviews with academicians in the accounting field, assessed general education issues related to the preparation of the accounting student for his/her role in MAS activities. Responses to the questions were subjective and broad in nature. They do however, in the view of the author, provide the reader with some meaningful insight into current MAS educational trends, as well as the academicians perceptions of the accountants' MAS qualifications. The questions asked of academicians along with their summarized responses has been provided below. For brevity purposes, all responses have been reported in a generalized fashion.

## Question:

Currently, do public accounting curriculums adequately prepare students, at the bachelor degree level, to assume a meaningful professional role in MAS? Do accounting curriculums at the masters degree level adequately prepare students for MAS roles? If curriculums at either level lack adequacy, what improvements should be made?

#### Answer:

Most interviewed felt quite certain that students are currently being adequately prepared at the Bachelors and Masters level to engage in MAS. The respondents generally agreed the student of accounting is exposed to a more theoretical framework at the graduate level and consequently, Master degreed people might be somewhat more sophisticated in their MAS activities. All agreed however, that graduates with Bachelor degrees are also capable to deal with MAS engagements after a few years of on the job training and seminar courses in MAS specialization areas.

#### Question:

Are courses which are related to MAS, such as Management Sciences, Electronic data processing, Personnel, etc., offered to students on a purely "elective" basis or are they "built in" to the standard accounting curriculum?

#### Answer:

Most respondents stated that to a certain extent, all courses are related to MAS. Essentially, undergraduate

programs are more pragmatic and some MAS courses are offered as electives. Conversely there are also some MAS subject matter courses included in the core curriculums as well. Some undergraduate schools permit the student who wants to "consult" as well as practice traditional accounting to gear his other program towards that goal. Other respondents indicated that the "core" accounting courses assimilates MAS specialities into the basic knowledge factors given all accounting students. As an example, students taking an internal control and auditing course are now normally exposed to EDP systems in the process.

## Question:

Are students at the Bachelors or Master degree levels provided specific knowledge pertaining to how the CPA profession operates, how one might conduct on MAS assignment and what MAS standards and procedures are currently followed by practitioners?

#### Answer:

In general, most answered that students are exposed to knowledge pertaining to how a CPA firm operates, how one might conduct a MAS engagement and what standards and procedures are currently followed by practitioners. There were some academicians who stated that the exposure to this type of information is brief and geared towards questions asked in the CPA licensing examination. These same individuals stated that indepth knowledge of "professional"

practice" procedures and standards is "picked up on the job."

# Question:

Are individuals who graduate from an accounting program better qualified to move into MAS areas than say individuals who graduate from a general business or general management program?

#### Answer:

Most of those interviewed said that the accounting school graduates are probably better qualified to move into MAS areas than say individuals who graduate from other business related programs. The respondents contend that most organizations benefit the most from advice that provide a direct and positive impact on the entity's financial position. The CPA, according to some interviewed, is in the best position to provide this kind of input. They also stated that some types of management "generalists" get too involved with how an organization or its problems "look on paper" and accordingly ignore whether that picture means financial stability for the organization. A small minority of those interviewed felt the accounting graduate was not in a better position to deal with MAS because of his or her tendency to specialize in primarily financial areas without much knowledge of other management considerations.

## Questions:

Should colleges and universities attempt to develop programs which allow students to specialize in a specific area of MAS or should these programs be designed to produce MAS generalists?

#### Answer:

The majority of those interviewed stated that scholastic efforts should be generalized at the undergraduate level and more specialized at the graduate level. Most answering also stated that accountants tend to serve on the whole, highly technological and complex organizations that change constantly in response to their operating environments. Therefore, most suggested that accounting educational programs should turn out flexible generalists.

## Question:

From an academic institution perspective, is there a general problem with the definition of MAS? Is there a general consensus regarding what should be included in the scope of MAS?

#### Answer:

Those answering this question felt that each institution has its own operative definition for MAS, just as they do for traditional accounting practice. Most saw, as a critical factor, to remain consistent in the application of both within the institution.

#### D. SUMMARY

This chapter has presented the reader with findings provided by both the author developed sole proprietor CPA firm questionnaire and the indepth interviews of selected practitioners and accounting academicians. The findings were presented, discussed, compared and analyzed. Provided also, was a discussion of significant differences in key questions asked of the survey respondents and which were similiar to questions asked in previous studies. These key differences were highlighted for comparison sake. The emphasis of this chapter was limited to an analysis of the compiled data without reference to possible inferences.

In the next chapter, the author attempts to draw conclusions and make recommendations based upon the findings provided by the survey sampling tools. These conclusions have been related directly to the sole proprietor's current MAS practices and implications for future expansion in this particular service area.

## V. CONCLUSIONS AND RECOMMENDATIONS

#### A. GENERAL

The purpose of this thesis, as previously stated in the introduction was to assess current Management Advisory Services (MAS) practices of sole proprietor Certified Public Accounting (CPA) firms for the determination of recommendations regarding the direction and the degree of evolution that MAS expansion efforts by these practice units should take in order to satisfy client demands. The assessment of MAS practices became the author's research objective and in its formulation, two fundamental assumptions were made:

\*Assumption Regarding Demand. The author's report assumed that clients of accounting firms, with few exceptions, have a need for some degree of external and professional management advice.

\*Assumption Regarding Abilities and Desires. The author also assumed that the public accounting profession is capable and desires to satisfy client demand for management consultative advice.

It was noted in the introduction that the author limited the focus of the research objective to sole proprietor CPA firms because it was thought that this category of public accounting firm appeared to servcie principally smaller sized client organizations, which because of their limited staff/resources could benefit the most from MAS. Sole proprietor CPA firms have also demonstrated only a moderate MAS

activity growth rate as compared to larger firms and comprise the majority segment of firms within the accounting profession. Accordingly, the sole proprietor accounting firm probably could stand to strengthen the accounting profession recognition the most.

To help the reader appreciate the significance of the research objective, the author provided a background discussion pertaining to general MAS considerations. Specifically the author reviewed topics pertaining to the organization of the CPA firm in general as well as, the overall scope of MAS activities. Special emphasis was placed upon those elements integral to considerations given by CPAs regarding expansion of the current range of services. A review of the domain of MAS was presented from the perspective of how the public acocuntant can expand his or her activities to accommodate external management advisory needs of clients. A statement regarding the general background of management consulting was provided, followed by an analysis of the CPAs qualifications relative to rendering MAS and the common methodology/techniques used by qualified CPAs in the delivery of MAS.

A discussion directed towards a review of the research methodology employed in support of the central research objective was provided by the author for the sake of informing the reader of the various data sampling tools used. Essentially, the author provided a comprehensive overview of

the methodology used to determine the willingess of sole proprietor CPA firms to expand current MAS activities and establishment of resultant recommendations pertinent to the possible future direction and evaluation of these activities. The author developed survey questionnaire used to gather data relative to the extent and nature of sole practitioner MAS engagements was presented along with a discussion of questions asked during indepth interviews with practitioners and accounting academicians.

Following the discussion related to the research methods used, the author presented the actual research findings. Information gathered by the sampling techniques employed was presented, discussed, compared and analyzed. Significant differences in key questions, asked of the survey respondents and which were similiar to questions asked in previous studies, were highlighted for the sake of comparison. Conclusions and recommendations based upon the data obtained were not discussed up to this point in the research paper and will now be discussed in this chapter.

#### B. CONCLUSIONS

The author will now attempt to make certain inferences regarding issues and problems raised by ther research findings. The conclusions have been presented in a format which follows the areas of general interest noted in Table III-2 of Chapter III.

## 1. Organization Background

#### a. Professional Accreditation

The professional accreditation of sole proprietor CPAs is generally limited to a license to practice public accounting within the state he or she resides in. A limited number of sole practitioners maintain a CPA's license in more than one state. It is very unlikely that a sole practitioner would hold a professional accreditation in any field other than public accounting. At present, there exists no "special" accreditation requirement for providers of MAS. This may be unfortunate, in that there is no reasonable assurance that the client's interest will be protected from possibly incompetent MAS providers. That is not to say a CPAs license does not afford the client a certain degree of protection. It simply means that at present, a client has no generally accepted means of assessing a CPA's qualifications relative specific MAS functions.

#### b. Age of Firm's Practice

In general, the average business life expectancy for the total population of CPA firms is in excess of 15 years. This apparent reasonable practice stability offers clients certain advantages. Clients can be reasonably assured that the sole proprietor CPA firm which is providing them with accounting and/or MAS sercies is not going to "fold-up". The average life of a sole practitioner's operation is not as long as it would be say for CPA partnership

or professional public accounting firms. This difference; however, should not be of too much concern to clients. A large number of sole practitioner firms tend to evolve over time into partnerships and corporations. This evolution, according to the literature, tends to be compatable with the expected growth patterns of most successful businesses.

#### c. Nature of Proprietors Education

Professionals affiliated with larger, non-sole proprietor accounting firms, tend to have varied educational and experience backgrounds. Larger CPA firms tend to employ full time MAS professionals, many of which have master's degrees in areas other than accounting, have business experience outside of public accounting, and are not CPAs. This experience/educational background consideration, may in part, allow larger firms to offer a broader range of MAS. Sole practitioners conversely, tend to have experience/educational backgrounds which are limited to areas of accounting. As a total segment, sole practitioners are predominatly bachelor degreed individuals as compared to larger CPA firm MAS staffs which are predominatly master degreed people. The more narrowly specialized sole proprietors may not be in a position, by themselves and without further education, to offer a broad range of MAS. The sole proprietor may be most effective if he or she choses to specialize in certain areas of MAS.

## 2. Organizational Structure

#### a. Degree of Practice Decentralization

Larger MAS practice units are normally decentralized by local offices or regions and usually a central office provides staff services and information. These decentralized offices may share specialists with each other on an as needed basis. For the larger firms, decentralization makes it possible to develop more intimate client relationships. (Ref.3) Conversely, sole proprietor CPA firms tend to be very centralized and normally maintain only one office. With respect to their centralized organization, they stand a good chance to develop intimate client relationships similiar to their larger, decentralized counterparts. In the opinion of the author, development of an intimate client organization relationship is a prerequisite for effective MAS engagements.

#### b. Size of Professional Staff

Sole proprietor CPA firms tend to limit the size of their professional service staff to approximately three individuals on the average. The author's survey of sole practitioners revealed that almost 40 percent of them are "one person" offices. Approximately 50 percent of them have no more than five individuals engaged in the provision of professional services. About ten percent of those firms surveyed said they had up to ten individuals involved in professional services. The general number of employees may

contribute to the extent <u>or</u> nature of sole practitioners MAS engagements.

#### c. Extent of Staff Dedicated to MAS

Related to the ability of the sole proprietor's to provide MAS may not only be limited to the number of total staff employed by the firm but also the emphasis placed on management consultative activities. At least 79 percent of those sole proprietor firms surveyed do not employ individuals who spend more than 50 percent of their time on MAS functions. The reasons for this <u>apparent</u> lack of interest will be discussed later in the conclusion portion of this chapter.

## d. Degree of MAS Function Separation

It can be stated, with a some degree of certainty, that sole proprietor public accounting firms do not differentiate MAS functions within their firms. Most larger public accounting partnerships and professional corporations do separate the MAS function. Because of the limited staff size, it may be advantageous for sole proprietors not to make an MAS functional separation. It could be argued; however, that a functional separation of accounting and MAS activities might reduce the potential CPA ethics and/or independence problems.

# 3. Client Base Composition

# a. Nature of Client Ownership

Sole proprietor CPA firms tend to service clients whose organizations are structured in terms of sole proprietorships, partnerships and closely held corporations. To some extent, the sole practitioner deals with publically owned companies; however, on the average 75 percent of the clients population will be sole proprietors or partnerships. This situation should facilitate development of an expertise related to problems inherent in only those types of organizations. Sole proprietor and partnership organizations, in the view of the author, would tend to be less complex and operate in more narrow business environments.

# b. Size of Client Ownership Type

All but a few sole practitioner accountants deal with what may be considered small business concerns. The literature suggests that small sized organizations could probably benefit the most from management consulting and because of limited staff resources this advice must come from outside the organizational structure. It seems to the author, given the relative size of most clients, that the sole proprietor CPA could stand to capture the greatest share of the potential MAS market.

# 4. Range of Professional Services

# a. Extent of Total Firm Service Specialization

When compared to the total professional accounting population, sole proprietor CPA firms dedicate less time to audits and more time towards tax work, accounting services, MAS and other related business services. The sole practitioner's service specialization probably reflects the nature and size of his/her clients. Essentially, the sole practitioner would be expected to do less audit work because publicly owned corporations do not account for a great percentage of the firms total client base. A larger total percentage of "smaller clients" would also mean a greater accounting, management advisory, tax and other service workload. Larger clients would be expected to perform these functions, to a certain degree, with "in-house" staff forces.

#### b. Scope of Total Firm MAS Activities

The scope of MAS among sole practitioners is varied. Virtually all those services performed by larger MAS practice units are also carried out by the <u>total</u> population of sole proprietor CPAs. The major difference is that sole practitioners tend to concentrate on a relative few MAS areas. That is, out of the total 45 MAS functions which 40 percent of the larger MAS practice units said they performed, only 11 were engaged in by sole practitioners. These 45 functions were applicable to all sized clients, not just

large ones. Essentially, the sole practitioner does not offer as wide a range of MAS as his or her large practice unit colleagues do.

## c. MAS Billing Method

Approximately 60 percent of those sole proprietor CPA firms surveyed do not separate MAS charges. They are included as part of the total service charges. By not separating the charges, clients may not be aware of the degree of MAS performed and/or practitioners may not be highlighting the important nature of MAS. It may also be the case that practitioners are providing MAS to some extent without knowledge of doing so. From the standpoint of assessing the effectiveness and efficiency in delivery of services, it seems prudent to the author, for MAS charges to be accounted for and billed separately.

## d. Degree of MAS Specialization

Approximately 75 percent of those sole proprietor CPA firms surveyed stated that they did not specialize in certain areas of MAS. Rather than specialize, the survey data seems to suggest that the total sole proprietor CPA population as a group, concentrates on a limited number of MAS areas which they all have in common. The sole practitioner may not chose to specialize in a particular area of MAS for fear of doing a disservice to his or her clients by not offering a broader range of services, even though, this

range of service may be limited in relation to what a larger CPA could offer.

## e. Nature of MAS Specialization

Of those sole practitioners which do specialize, there is a tendency for some of them to gear their specialization towards a particular industry vice a particular management functional area. On the other hand, over half of those who indicated they do specialize by concentrating on areas normally associated within the definition of MAS. The majority of these firms specialized in areas related to strategic or long range planning such as long range budget preparation, real estate planning, financing, cash investment planning etc. These CPAs may have "sold" their analytical planning abilities, something which the literature suggests small firms often need help with.

## 5. MAS Activity Growth Rate

#### a. Past MAS Growth Rate

According to the survey findings, sole practitioners have, increased the percentage of their overall business through the offering of MAS. This past trend seems to suggest that clients have become more aware of the need for MAS and that some CPAs have chosen to satisfy their demand.

## b. Projected MAS Growth Rate

The findings suggest that sole proprietor public accounting firms agree that MAS activities will increase

over the next five years. Their opinions tends to be consistant with the findings of larger firm surveys, such as the "Roper" study, which concluded that accounting professionals felt that MAS activities would expand at an approximate annual rate of 10 percent. The projected growth rate, in the opinion of the author seems to indicate that sole practitioners are anticipating increased MAS demands to be placed upon them.

#### c. Relative Desire to Increase Range of MAS

Based upon the findings, it appears that CPA firms have only a moderate desire to increase the present "range" or variety of specific MAS areas. There certainly is no general indication of an extremely high desire to increase the scope of services. The reason(s) for this apparent lack of strong enthusiasm to increase the range of MAS activity, in the opinon of the author, may be due to "limiting factors" which were noted by those firms surveyed. The nature of these factors is discussed later in the conclusions section.

d. Relative Desire to Increase Client Base through

As with the issue of service range, there appears to be no extremely high desire on the part of sole practitioners to increase their client base (i.e. number of clients) through offering of MAS. There is only a moderate desire to use MAS as a vehicle for increasing the number of

clients. The degree of desire, similiar to that associated with increasing the range of services, may be influenced by limiting factors noted by the survey respondents and which are discussed below.

e. Extent of Factors Limiting MAS Activity Expansion Of those responding to the survey, the largest number indicated that the lack of internal staff was the prime reason for not expanding their MAS activities. 64 percent felt staffing was the single greatest limiting factor. Thirty-five percent felt the greatest limiting factor was a lack of client demand for MAS. Viewing lack of adequate client demand as a limiting factor to MAS expansion seems to be in the opinon of the author, inconsistant with the overall consensus established by this survey and others which suggested MAS activity would expand in the forthcoming Twenty-two percent of those survey respondents felt inadequate staff training/education was the prime limiting This response may suggest, in the MAS growth factor. opinion of the author, that some practitioners feel that they are not qualified to deal with a wider range of services. If this opinion can be substanciated, then the emphasis currently placed on accounting curriculums may have to be modified and/or accountants might have to be more actively involved in "continuing education" programs.

## f. Relative Desire to Specialize in MAS

Over half those responding to the questionnaire as well as those individuals interviewed by the author believe that sole proprietor CPAs should be prepared to deal with a wide range of MAS activities while at the same time limiting the actual practice of MAS to very specific and specialized areas. What these findings might suggest, is that the sole practitioner feels he or she can only be effective in the delivery of MAS if the firm concentrates its knowledge factors and professional resources on very specialized services, concurrent with maintaining on overall appreciation of management advisory\_principles. Medical doctors have for sometime followed the same approach. example, because a general medical practitioner's resources are limited, coupled with the fact that certain medical disorders are often complex to diagnose and treat, it would be very ineffective for this individual to deal with a specialized problem. A general medical practitioner would probably not want to treat a serious neurolgical disorder. The patient in all probability would be referred to a specialist, like a neurosurgeon. A neurosurgeon conversely, would not be effective if he or she lacked an overall understanding of general medicne.

# 6. Client Demand for MAS

# a. Degree of Client MAS Recognition

There appears to be a divergent set of opinions among sole practitioners concerning the client's recognition of the need for MAS. Twenty-seven percent of the respondents felt that there was a problem of client recognition, 46 percent said that sometimes there was a recognition problem, where as only 27 percent said that there was not a problem. The author can only conclude that based upon the small percentage that said "No" there was not a problem of recognition, that CPAs probably need to educate their clients concerning the potential benefits to be derived from MAS.

## b. Degree of Client Education Efforts

The author's conclusion regarding the possible need to "educate" accounting clients seems to have been confirmed by responses from approximately 60 of the questionnaire respondents who answered "YES" it is necessary to "educate" clients regarding the CPA's skills and benefits to be derived from MAS. Based upon the responses, it appears that if a sole practitioner wants to expand his or her MAS activities, consideration must be given to a service marketing campaign.

# 7. Advertising of Services

a. Nature of Professional Service Advertising

emphasis placed upon advertising of any particular sole practitioner service. Ninety percent of those sole proprietor CPA firms responding to the survey indicated that they do not advertise for any of the services they perform. This lack of interest in services advertising may be attributed to the fact that it has only been in the past few years that public accounting firms have been permitted by their professional societies to use public solicitation as a means of attracting additional business. The change on advertising restrictions was brought about by public law not from within the accounting profession. Accordingly, accountants may feel "morally" constrained and chose not to advertise because of ethics considerations.

 b. Impact of Professional Services Advertising on Total Services

Even though on the average approximately 90 percent of the respondent sole practitioners do not advertise, at least 50 percent of them thought it would be beneficial from the standpoint of increasing the overall office workload. From this, the author can only conclude that total accounting services will be advertised to a greater extent in the future, assuming of course, that accountants are

interested in increasing the extent of their current practice.

c. Impact of Professional Service Advertising on MAS
Activities

agreed that advertising could help a practitioner expand his or her MAS activities. Although 35 percent said that they cannot determine if advertising would help a CPA expand MAS activities, it seems to the author that if clients need to be "educated" regarding possible service benefits, then advertising may be one means of helping to achieve that objective.

# 8. Client Referral

## a. Relative Desire to Refer Clients

Over half of those respondents surveyed said that they refer their clients with MAS needs which may be unique or beyond the CPA firms area of expertise. It seems to the author, that the percentage of those who refer clients for needs that they cannot deal with should be near one-hundred percent. A client should not be deprived of receiving help that may enhance the organization's financial or operating position. As a rule, medical doctors do not hesitate to refer patients for services beyond the level of the physicians expertise. Sole proprietor CPAs, like doctors, are professional service providers and should as a matter of routine refer clients for appropriate help when needed.

That is not to say that certain sole proprietor accounting firms cannot handle all of a clients MAS needs. The author's point is that based upon the reserach findings, most sole practitioners are not equipped to deal with the total range of MAS services. Because of this, it seems only reasonable that clients be referred when necessary.

#### C. RECOMMENDATIONS

In view of the research findings provided by this thesis work as well as the author's conclusions drawn from the analyzed data, the following recommendations are provided for the various parties which interact with the professional public accountanting MAS process:

# 1. For the Sole Proprietor CPA

- a. Plan to deal with an increased client demand for MAS.
- b. Attempt to specialize in certain MAS areas.
- c. Refer clients to others when the need arises.
- d. Provide clients with insight into potential MAS benefits.
- f. Keep abreast of current professional MAS standards and trends.
- g. Explore the use of professional service advertising.

h. Establish long-range MAS plans and objectives for the CPA firm. Use them to measure the degree of effectiveness.

## 2. For the Educational Institutions

- a. Continue to provide a general accunting educational program at the bachelors degree level with limited opportunity for selected student specialization.
- b. Provide specialized educational programs at the masters degree level with emphasis on both the theoretical and practical considerations of MAS.
- c. Become <u>or</u> continue to be actively involved in a continuing education program for practitioners.

# 3. For the Professional Accounting Societies

- a. Continue to establish and promulgate MAS practice standards.
- b. Establish an accreditation program for MAS specialties.
- c. Monitor overall MAS quality as delivered by CPAs.
- d. Establish clear cut rules on referrals between CPA firms.

#### APPENDIX A

# SIGNIFICANT MANAGEMENT ADVISORY SERVICE ACTIVITIES

The following is quoted from the publication, Management Advisory Services by CPAs, authored by edward L. Summers and Kenneth E. Knight, published by the American Institute of Certified Public Accountants, New York, 1976.

## SIGNIFICANT SERVICES

accounts payable accounts receivable acquisitions, mergers and divestments annual financial planning and budgeting applications software development billing and credit cash management clerical systems and forms clerical work methods and simplification computer operations evaluations cost accounting and allocation cost standards customer order processing data communications economic and feasibility studies equipment evaluation financial reporting financing, selecting sources of capital form design and installation fund accounting general accounting goals and objectives studies information flow studies

information systems inventory control lease or buy analysis long-range financial planning long range planning management audit management controls and report order entry organization structure and policy payroll and labor distribution performance reporting policy and procedure manuals product profitability property report design and installation responsibility reporting return on investment studies sales analysis sales forecasting, demand plans software evaluation systems and procedures design, analysis and documentation (EDP and manual) systems and procedures installations (EDP and manual) systems test and conversion preparation

# Knowledge concepts inventories

# General knowledge

(Short explanations and references are representative and not exhaustive)

Summary Descriptions

- Major Characteristics of the CPA Profession—The CPA profession's attributes, functions, services responsibilities, policies, and ethics.
  - (1) Functions and services—Auditing, tax, accounting, MAS services and their history.
  - (2) Legal liability—Special legal obligations and duties of the CPA as and true.
  - (3) CPA profession ethics—Due care, independence, competence, and other matters of ethical concern.
- b. CPA Profession Policy Making Processes— The MAS professional should understand how issues are considered and resolved in the CPA profession.
  - (1) State societies and AICPA—Policy formation, ethics-enforcement, information services.

#### Level | References

## Level 2 References

- "A Description of the Professional Practice of Certified Public Accountants." Statements in Quotes, *The Journal of Accountancy*, Dec. 1966, p. 61.
- Auditing: Principles & Procedures, Holmes & Overmyer (Irwin, 1971), Ch. 3.
- AICPA Professional Standards: Ethics, Bylaws (as of Sept. 1, 1974) (AICPA, 1974), Entire text.

The Rise of the Accounting Profession, Carey (AICPA, 1970). Vol. 1, Chs. 1.2,11; Vol. 2, Chs. 7,8,9,16,18.

SEC Accounting Practice and Procedure, 3d ed., Rappaport (Ronald, 1972). Chs. 26,27,28.

Same citation as level 1.

No citation at level 1.

The Accounting Profession, Buckley & Buckley (Melville, 1974).

#### Summary Descriptions

- (2) Public (government) agencies—State accounting boards, SEC, FTC, and others and how they affect accounting practices.
- c. MAS Role and Standards in CPA Practice—AICPA statements in respect to operating an MAS practice and the standards by which the practice should be conducted. These standards apply to the MAS practitioner himself, to specific engagements, and to the MAS practice as a whole—all within the CPA profession context.
  - (1) Role of management services in the CPA firm—Relation of MAS to other CPA firm services, ability and need to render management services, all as determinants of role and scope of MAS appropriate to a particular firm.
  - (2) MAS practice standards—Personal characteristics, competence, due care, client benefit, understanding with client, planning supervision and control, sufficient relevant data, communication of engagement results to client.
- 2. How Business Operates and Is Managed—The operation and management of organizations and organization functions such as marketing, personnel, linance, accounting, and operations; related areas such as economics, business law, and environmental factors. These concepts are included to the extent they would be found in the core of a better MBA program accredited by the American Association of Collegiate Schools of Business (AACSB) (this same knowledge may also be available from other sources, including AACSB-accredited BBA programs).
  - a. Management (Theory and Practice)—The basic responsibilities and processes of management; the essential principles of management; the basic issues confronted in a managerial context.
    - (1) Managerial responsibility descriptions—In the major functional and program areas of business.
    - (2) Principles of management— Management by exception, span of control, defining responsibility commensurate with authority, operating according to a plan, etc.
    - (3) Practical issues—Decentralization, delegation of authority, employee participation, and morale, technology change, redefining objectives, etc.
    - (4) Production—Use of management and engineering principles in operation and control of manufacturing, processing, and production systems.
  - b. Systems—Use of systems analysis and terminology to describe general organizational functions.

#### Level 1 References

Level 2 References

No cuation at level 1.

The Accounting Profession, Buckley & Buckley (Melville: 1974),

Management Services by Accounting Firms, Arnstein (Ronald, 1967), Ch. 1. The Accounting Profession: Where Is It Headed? Carev (AICPA, 1962), Ch. 6.

No citation at level 1.

Statements on Management Advisory Services, MAS Executive Committee (AICPA, 1974). Ch. 1.

This section—How Business Operates and Is Managed—is defined as consisting of concepts included in an MBA core. Thus, there are level 2 references.

Principles of Management: An Analysis of Managerial Functions, 5th ed., Koonta & O'Donnell (McGraw-Hill, 1972), Chs. 1.2,3,4.

Organization Behavior and the Practice of Management, Hampton (Scott Foresman, 1973). Chs. 3,4.6,7.

The Arts of Top Management, Mann (McGraw-Hill, 1971), Chs. 2,6,8,9,11,12.

Production-Inventory Systems, Buffa & Taubert (Irwin, 1972). Chs. 1-3.

#### **Summary Descriptions**

- Theory and terminology—Requisite variety, control; systems classification and common elements (e.g., open vs. closed systems; feedback), etc.
- (2) Systems description of organization functions—Emphasis on effects of information transfer and systems interaction and control.
- c. Finance and Accounting—Financing forms for private and public sector organizations, role of the finance concepts and uses of accounting and financial information in business.
  - (1) Finance function form and responsibilities—Planning and control, liquid assets management, availability of capital as required to achieve organization objectives.
  - (2) Financing forms for private and public sector organizations—Equity and longand short-term debt; taxing authority; special problems of partnerships and proprietorships in raising and maintaining capital.
  - (3) Basic accounting principles—The major accounting concepts such as period matching of income and expense; uses and interpretation of accounting statements; role of accounting in management information systems, etc.
  - (4) Basic managerial accounting—Concepts of budgeting standard costs, responsibility reporting, variance analysis, cost-volume profit analysis, and cost reporting and control.
- d. Computers—The significance of computers in business and government and the basic guidelines for use of computers by management.
  - Elementary computer systems skills— Use of timesharing facilities; ability to flowchart simple calculations, use simple computer software, and write short user-oriented language programs.
  - (2) Capabilities and characteristics of a simple computer system—Input and output media, memory (internal and external types), and central processing unit; business data processing, its major applications.
- Marketing—Selling and distribution functions in business, including marketing planning and research, selling, advertising, and administration.
  - (1) Marketing function description— Organization, major responsibilities, planning, and control.

#### Level 1 References

Level 2 References

Information Systems: Theory and Practice, Burch & Strater (Hamilton, 1974). Chs.

Systems Analysis, Daniels & Yeates (SRA, 1971). Chs. 1,7,8,10-15.

Financial Management and Policy, 3d ed., Van Horne (Prentice-Hall, 1974). Chs. 4-8,16-19 20-25.

Financial Management and Policy, 3d ed., Van Horne (Prentice-Hall, 1974), Chs. 9-15

Intermediate Accounting, 3d ed., Meigs, Mosich, Johnson & Keller (McGraw-Hill, 1974). Entire text.

Managerial Accounting, 3d ed., Moore & Jaedicke (South-Western, 1972). Chs. 9-15.

Information Systems: Technology, Economics, Applications, Mader & Hagin (SRA, 1974). Chs. 1-14.

Introduction to the Camputer, Fuori (Prentice-Hall, 1973). Paris f. II. III.

Marketing Management: Analysis, Planning and Control., 2d ed., Koiler (Prentice-Hall, 1972). Chs. 1-6, 9, 20-24. (2) Major marketing decisions—Selection of distribution channels, market identification, brand image; product-line control, advertising policies, use of credit as a marketing tool. Marketing Management: Analysis, Planning and Control, 2d ed., Kotler (Prentice-Hall, 1972). Chs. 12-19.

- Personnel—Assurance of adequate human resources to carry out organization objectives; evaluating organization policies for compatibility with sound personnel practice.
  - Personnel function description— Organization, major responsibilities, planning and control.
  - (2) Major personnel decisions—Hiring, training, job evaluation, salary adjustment, labor relations, basic concepts and objectives for productivity improvement.
- g. Management Science—Elementary quantitative aids for describing and analyzing information.
  - Basic calculus and linear algebra— Elementary concepts of integral calculus, vector and matrix notation and operations.
- (2) Elementary statistics and probability— Tests of hypotheses and statistical decision models, etc.
- (3) Concepts of quantitative decision models—Linear programming, inventory economic order quantity, waiting lines, and simulation.
- Economics—Basic principles for analyzing and understanding the economic dimension of human behavior, the characteristics of markets, and interaction of public and private sectors.
  - Macro and micro economics—Profit maximization under varying competitive assumptions; operation of the monetary system; the role of the federal budget in national economic policy.
  - (2) Managerial aconomics—Factor productivity and profit maximization; economic models of common decisions such as new product introduction.
- Business Lew-Besic principles of social behavior; regulation by law.

Personnel Management, Jucius (Irwin, 1971), Chs. 1,5,8,9,25.

Contemporary Problems in Personnel: Readings for the Seventies, Hamner & Schmidt (St. Clair, 1974). Entire text.

Elementary Matrix Algebra, 3d ed., Hohn (Macmillan, 1973). Entire text.

and The Calculus: A Genetic Approach, Toeplitz (Chicago, 1963). Chs. 1-3.

Statistics for Modern Business Decisions, Lapin (Harcourt, Brace, Jovanovich, 1973). Entire text.

Quantitative Analysis for Business Decisions, 4th ed., Bierman, Bonini & Hauseman (Irwin, 1973). Entire text.

Economics, 9th ed., Samuelson (McGraw-Hill, 1973). Entire text.

Microeconomic Models, Kogiku (Harper & Row, 1971). Chs. 1,2,5,5,7-10.

- Law relating to businesses—The legal environment of business and other organizations; common situations requiring expert legal counsel.
- (2) Law relating to the professional—Legal responsibilities, rights, and liabilities of the consultant; importance of ethics, competence, and independence.
- Behavioral Sciences—Principles of motivation, influence, authority; psychology of work organizations; effect of information in modifying behavior.
  - Individual and small group behavior— Interactions of individuals with their environment and other individuals.
  - (2) Organization behavior—Interactions of organization segments, and of organizations with other organizations.
- Unique Characteristics of Public Sector Entities—Organizing, financing, controlling, and operating a not-for-profit institution or government program; public vs. private sector allocation of scarce resources; economic welfare and public choice; collective decision-making in the political process; growth and productivity in the public sector.
- 4. Communication—Communication proficiency is essential to the consulting process, in which MAS professionals transfer knowledge, promote change, and otherwise utilize information's effects on other persons to achieve agreed-on beneficial objectives. This proficiency is required in collecting input, developing recommendations, and later in implementing these recommendations. In addition, communications proficiency is essential in practice management and development.
  - a. Written Communication—Essential for engagement-related documentation such as proposals, letters of understanding, survey instruments, working papers, reports to clients; for practice-related documentation such as skills descriptions, staff training and evaluation, and client industry file preparation.
  - Oral Communication—Emential for interviewing client personnel, exchanging data with client and professional staff, running meetings, and generally transmitting, and receiving accurate images of facts, feelings, questions, and conclusions.

# Level 1 References

Principles of Business Law, Corley & Robert (Prentice-Hall, 1975). Chs. 1-6, 25-27, 32-39.

Accountant's Office Manual and Practice Guide, Zweig (Prentice-Hall, 1969). Ch. 15.

Interpersonal Behavior in Small Groups, Ofshe (Prentice-Hall, 1973). Entire test

Organization and Management: A Systems Approach, Kast & Rosenzweig (McGraw-Hill, 1974) Chs. 1.2.3.4.6.8.

Financing Modern Government, Anderson (Houghton Mifflin, 1975). Preface & Chs. 1-9.

Analysis of Public Systems, Drake (MIT Press, 1972). Entire text.

(No citations at level 1 because these skills and knowledge are not acquired at the 5-year university program level.)

#### Level 2 References

Same citation as level 1.

An Introduction to Logic b' the Scientific Method, Cohen & Nagel (Harcourt, Brace, 1936). Ch. I. Effective Business Report Writing, 3d ed., Brown (Prentice-Hall, 1973). Chs. 1.3,4.7.8. Documentation Guides for Administration of Management Advisory Services Engagements, Staff Study (AICPA, 1971). Entire text.

# Level 1 References

### Level 2 References

- (1) Interviewing—Systematically eliciting specific information from others through a planned or structured interrogation process.
- (2) Conversation—Mutual unstructured exchange of substantive information where the exchange is necessary to an MAS process.
- (5) Oral presentations
- 5. MAS Practice and Engagement Characteristics—Categorization of MAS services and practices; MAS analytical approach to an engagement: conduct of MAS engagements; management of an MAS practice.
  - a. Classifications of MAS Services and Practices—Why clients seek MAS services; types of MAS practices; delivery modes of MAS services.
    - Survey and action engagements— Distinctions between engagements that end with a report to a client (survey) and engagements that also include implementation (action).
    - (2) Two-party vs. three-party engagements—Distinctions between engagements affecting only the client vs. those also affecting a known or unknown third party outside the client organization.
    - (3) Systems or decision nature of engagement—Distinctions between engagements to find ways of accomplishing a given function in an ongoing or routine way (systems) and engagements that address unique, non-recurring situations (decision).
    - (4) Practice unit size—Relationship between practice unit size and practitioner characteristics.
    - (5) MAS service delivery modes— Distinctions between engagements with relatively little written documentation or reporting (informal) and engagements requiring extensive documentation and written reporting (formal). Factors that are considered are risk of incomplete or misinterpreted data or client misunderstanding of recommendations; time period hefore recommendations; time period hefore recommendations; time period hefore recommendations with the client: applicability of pre-existing company and/or industry knowledge; anticipated professional time input and technical skills requirements.
  - b. MAS Analytic Approach to Engagements in all types of engagements, structured analytical approaches are necessary, although these approaches vary somewhat with the type of engagement, they are essentially similar. These approaches are:

Effective Business Report Writing, 3d ed.. Brown (Prentice-Hall, 1973). Pp. 211-219.

Communicating in Business, Lindauer (Macmillan, 1974). Chs. 1,5,6.

(No citations at level I because these skills and knowledge are not acquired at the 5-year university program level.)

> Management Services Handbook, Walley (Business Books, 1973). Chs. 3.5.

Professional Practices in Management Consulting, (ACME, 1966). Chs. 4-8.

Management Services Handbook, Walley (Business Books, 1973). Chs. 4,5,7.

Professional Practices in Management Consulting, (ACME, 1966). Chs. 1

How to the Best Results from Management Consultants, Shay (ACME, 1974). Entire text.

detailed here in summary form for engagements dealing with systems and with decision subject matter.

- (1) Systems approach—Analyze existing procedures; determine legal, information, control, and operational requirements a new system must satisfy; prepare preliminary designs for the new system; prepare operational designs, including flowcharts, procedures, and documentation descriptions; install new system; modify as necessary for satisfactory operations.
- (2) Decision approach—Analyze existing decision variables and relationships; determine criteria of acceptable recommendations; develop alternative recommendations (carefully evaluate recommendations for acceptability; implement the best alternative recommendation, and modify as necessary to achieve acceptable results.
- Conduct of MAS Engagements—Most MAS engagements move through the following phases or stages.
  - (1) Engagement proposal and planning— What to put in proposal and letter of understanding; tasks or phases of the engagement; estimated timing for achieving tasks or phases; allocation of professional staff to tasks or phases; estimating engagement costs.
  - (2) Engagement management—Interactions with client personnel; adherence to the engagement plan; punctuality; progress reports, knowledge of current status of the engagement; working in the client's office; unproductive time; control of out-of-pocket expenses; evaluation of staff on engagement; keeping working papers.
  - (5) Final report and engagement evaluation—Final reporting; documentation and support for conclusions; oral and written reports; engagement performance and significance evaluation—to firm and to client.
- d. Management of MAS Practice—Adaptation of management principles to the MAS practice in CPA firms.
  - (1) Practice development—Enhancing the CPA firm reputation for effective service; developing the practitioner's professional surpage.
  - (2) Practice management—Staff hiring and training; compensation and responsibility reviews; quality assurance programs; insernal systems and procedures.

Process Consultation: Its Role in Organization Development, Schein (Addison-Wesley, 1969). Entire text.

Accountant's Guide to Profitable Management Advisory Services, Whiteside (Prentice-Hall, 1969). Chs. 7,8,9,28.

Documentation Guides for Administration of Management Advisory Services Engagements, Staff Study (AICPA, 1971). Ch. 1.

Guidelines for Administration of the Management Advisory Services Practice, Staff Study (AICPA, 1968). Chs. 2,4,5,6.

Documentation Guides for Administration of Management Advisory Services Engagements, Staff Study (AICPA, 1971). Ch. 5.

The Successful Professional Practice, Levoy (Prentice-Hall, 1970). Entire text.

Personal Qualification of Management Consultants, (ACME, 1966). Entire text.

Management Services Handbook, Walley (Business Books, 1973). Ch. 4

# Executive planning, implementation, and control

**Summary Descriptions** 

(Short explanations and references are representative and not exhaustive)

Level 1 References

J	of m and proi with	iana sc cesse in a	er Management and Function—History gement; major managerial philosophies hools of thought; responsibilities, s, and functions of top management in organization.		
	•	Men man of r dust orga man orga	ory, Philosophy, and Principles of lagement—Basic foundations of lagement as seen by significant students nanagement of the past century; in- rial revolution and resulting inizations; emergence of scientific agement; the corporation as a social inization; motivational theories; inizational structures and theory.	The Evolution of Management Thought, Wren (Ronald, 1972). Paris I.II,III.	The Functions of the Executive, Barnard (Harvard, 1968). Essire text.  Classics in Management, Merrill (AMA, 1970). Sections dealing with Taylor, Gantt, Fayol, Mayo, McGregor.
		Fun expr man theo	temporary Management Thought—damental approach to management as tessed by major current writers and tagers; theory X and theory Y; systems ries of management; management by ctives; organizational behavior.	Management Thought, Wren (Ronald, 1972).	Managing for Results, Drucker (Harper & Row. 1964). Entire text. The Will to Manage, Bower (McGraw-Hill,
		The Plan	Major Functions of Management— nning organizing, staffing, implemen- t, and controlling.	Management: Theory and Practice, 2d ed., Dule (McGraw-Hill, 1989). Part 3.	1966). Entire text.  Same cuation as level I.
2.	pla mai	erm uire nnii rkeu erui	c. Management Planning and Control- ination of an organization's managerial ments including goals and objectives; ing to achieve goals and objectives; is in which to participate; organization re and major functions; technology and ities; geographical location.		
	3.	Stru	ntification of Goals and Objectives— icture of national and world commerce; icture of markets; dynamics of change.		
			National and world commerce and markets—Major human, energy, and raw materials sources and uses; trends in industrial, military, and consumer goods and service consumption; trade and commerce relationships in economic activity worldwide.	No citation at level 1.	Business Week, Lass 18 mos.
		(2)	Dynamics of change—How individuals and organizations respond to economic and other incentives, risks, and rewards.	No cuation at level 1.	Changing Organizational Behavior, Bartlett & Kayser (Prentice-Hall, 1973). Entire text.
		(5)	Regulation of commerce—Broad out- lines of government regulation; national and insernational intentives and dis- incentives; cartele; subsidies; inser- national finance.	Business, 4th ed., Wilcox (Irwin, 1971).	Management of the Multimetionals, Sethi & Holton (Free Press, 1974). Parts L.H.IV,V.
		(4)	Goals and objectives formulation— Writing internally consistent, achievable, and appropriate statements of goals and objectives.	No citation at level 1.	The Achieving Enter- prise, Christopher (A::ACOM, 1974). Entire text.

Summary Descriptions	Level   References	Level 2 References
<ul> <li>b. Identification of Policies to Achieve Goals and Objectives—Use of economic and technological forecasting; long-range plan- ning; feasibility analysis; organization struc- ture; and other major areas of policy for mulation.</li> </ul>	  -  -	
(1) Economic and technological fore casting—Significance and use of quan- titative and qualitative economic and technological forecasting techniques integration of econometric models with corporate planning models.	 	An Executive's Guide to Forecasting, Chambers, Mullick & Smith (Wiley- Interscience, 1974). En- tire text.
(2) Long-range planning and feasibility analysis—Elaboration of goals and objectives into business policy; feasibility analysis of policies to determiny acceptability on legal, economic, en vironmental, and humanitariang grounds.	i :	Top Management Plan- ning, Steiner (Mac- millan, 1969). Chs. 1-10.
(3) Capital expenditures—Identification and evaluation of possible broad expenditure categories and capital addition programs; postexpenditure audit.	•	The Management of Capital Expenditures, Murdick & Demming (McGraw-Hill, 1968). Entire text.
(4) Financial structure—Alternative deb and equity capital structures; com parative evaluation of their relative effectiveness in meeting anticipate capital requirements.	• <del>c</del>	Strategy of Cor- porate Financing, Hutchison (Hawthorn Books, 1971). Chs. 1.2.6.7.8.9,10,21.
c. Organization Structure and Change— Alternative approaches to assignment o responsibility; delegation of authority and accountability; evaluation of organization alternatives such as centralized, decen- tralized, horizontal, or vertical integration national or multinational; determine struc- ture most likely to promote organization goals: special aspects of organizational change.	F	Organization, Dale (AMA, 1967). Chs. 1-10. Organization Renewal, Lippit (Appleton-Century-Crofts, 1969). Entire text.
d. Policy Evaluation—Review of policy a distinct from review of operations; criteria o policy effectiveness; policy change processes direction, coordination and motivation o policy processes by the chief executive.	f ; f	Strategy and Policy Formation: An Integra- tive Approach, Paine & Naumes (Saunders, 1974). Entire text.
<ol> <li>Management Operations and Evaluation— Organizing, staffing, planning, and conducting overall top management operations in the framework of established policy; review of operations results; exercise of manageria authority to affect operations.</li> </ol>	g e ol	
<ul> <li>a. Operations Planning—Establishment o short-term plans: identifying current alter natives.</li> </ul>		
(1) Short-term planning—Developin short-term plans, goals, objectives con sistem with policies and environmen utilizing short-run forecasts and con pursue resources; respecting manageria desires and corporate flexibility.	i  -  -	Top Management Planning, Steiner (Marmillan, 1989). Ch. 11.

Top Management Planning, Steiner (Macmillan, 1969). Chs. 12-23.

(2) Operations alternatives—Identifying No citation at level 1, and evaluating current alternatives; tools for decision making; planning in specific functional areas such as

	Summary Descriptions	Level   References	Level 2 References
	marketing, production, research and development, and linance.		
<b>).</b>	Operations Organizing and Staffing— Assignment of authority and responsibility at operating management levels.		
	(1) Position descriptions—Assembling or identifying the workable combinations of responsibility and authority for managerial positions necessary to carry out plans; improving descriptions of existing positions; preparing mission statements for use in evaluating positions or controlling reorganization.	No citation at level 1.	Defining the Manager's Job, Bennett (AMA, 1958). Part 2 & Appendix.  Top Management Organization in Divisionalized Companies, Stieglitz & Janger (Conference Board, 1965). Appendix A.
	(2) Analysis of management talent— Assessment of management potential and executive abilities as a basis for specific managerial assignments.	No citation at level 1.	Performance Appraisal in Management. Williams (Heinemann. 1972). Entire text.
	(3) Assignment of responsibility— Matching individuals and positions; evaluation of executive performance.	No citation at level 1.	Assessing Corporate Talent: A Key to Managerial Manpower Planning, Finkle & Jones (Wiley-Interscience, 1970). Entire text.
c.	Operations Implementation and Control— Direction, coordination, and motivation of action by the principal executives; managerial control; evaluation of results; managerial actions to alter plans or improve performance.		
	(1) Implementation—Direction, coordina- tion, and conduct of operations through managerial supervision, decision- making, and intervention.	No citation at level 1.	Managerial Behavior, Sayles (McGraw-Hill, 1964). Entire text.
	(2) Control—Evaluation and control of operations through systems, procedures, information reports, and managerial appraisal.	Planning and Con- trol Systems: A Frame- work for Analysis, Anthony (Harvard,	A Total Systems Approach to Management Control, Stokes (AMA, 1968). Entire text.
		1965). Entire text.	Managing By - and With - Objectives, Wikstrom (Conference Board, 1969). Entire text.
In fo ap de	nportant Applications of Executive Planning, inplementation, and Control—The concepts and uniquely associated with these optications as necessary for a complete un- erstanding of this body of knowledge.		
2.	Merger, Acquisition and Divestiture— Analyzing needs of a business for merger or divestiture altermatives; procedures for locating candidates; evaluation of can- didates in terms of strengths and weaknesses (markets, assets, technology, management); divestiture procedures; strategy, and tactics for conducting mergers, acquisitions, and divestitures.	No citation at level 1.	Corporate Acquisitions and Mergers, Fox & Fox (Matthew Bender, 1974). Cha. 1,23,52,35.

b. Small Business Executive Management— The management process as related particularly to the environment, organizational capabilities, and needs of the small company, organization studies and manuals for small businesses. Small Business
Management, 3d ed.,
Broom & Longenecker
(South-Western, 1971).
Entire text.

Same citation as level 1.

.2

# Finance and accounting

(Short explanations and references are representative and not exhaustive)

#### **Summary Descriptions**

#### Financial Organization Responsibilities and Reporting—Operation of the finance function; communication to other busines, as and entities, understanding of financial and economic information received from other organizations, corporate growth and asset acquisition, and management of the organization's capital requirements.

- a. Financial Responsibilities and Management—Overall purpose and structure of the finance function in business; major responsibilities; normal policies for operations; duties and relation between treasurer and controller.
- b. Financial Statement Review—Critique and, interpretation of the client financial statements, as well as those of competitors, suppliers, customers, or potential acquirers, for credit, stability, acquisitions, or other client purpose.
- c. Cash Flow Control—Control over cash on hand, receipts and deposits, disbursements; location and uses of lock boxtes, location of bank accounts; reporting cash position; preparation and use of cash requirements forecast; accounts receivable and accounts payable control, credit policies, and credit and collection management.
- d. Asset Protection and Internal Control— Policies for control of major asset acquisition, location, use, and disposal; accounting for assets; review of assets for adequacy and contribution to operations and achievement of organization objectives; record-keeping and control of investments and documents.
- e. Economic Analysis of Financial Alternative—Careful scrutiny of proposals for commitment of business capital to longand short-term uses to determine their overall consistency with strategic plans and the annual budget; analysis of proposals for major structural changes through merger, acquisition, or a different legal business form.

### Level | References

Level 2 References

Corporate Treasurer's and Controller's Encyclopedia, rev. ed., Goodman (Prentice-Hall, 1975). Ch. 1.

Managerial Accounting, 3d ed., Moore & Jaedicke (South-Western, 1972). Chs. 1,2,3.

Intermediate Accounting, 3d ed., Meigs. Mosich, Johnson & Keller (McGraw-Hill, 1974). Ch. 5.

Internal Control Against Fraud and Waste, Cademia & Child (Prentice-Hall, 1953). Entire sext.

Internal Control Against Fraud and Waste, Cadmus & Child (Prentice-Hall, 1953), Entire text. Top Management Organization in Divisionalized Companies, Stieglitz & Janger (Conference Board, 1965). Chs. 7.8; pp. 142-151.

Financial Statements: Form Analysis and Interpretation, 6th ed., Kennedy & McMullen (Irwin, 1973). Chs. 1,2,8,9,10.

Corporate Treasurer's and Controller's Encyclopedia, rev. ed., Goodman (Prentice-Hall, 1975). Chs. 10,18.

Corporate Treasurer's and Controller's Encyclopedia, rev. ed., Goodman (Prentice-Hall, 1975). Chs. 21.38.

Summary Descriptions	Level   References	Level 2 References
(1) Financing and capital source selection criteria—Capital structure and con- figuration; size of capital contributions; selecting and negotiating with banks, investors, creditors, and other in- stitutions; cost of capital computation methods.	Essentials of Managerial Finance, 3d ed., Weston & Brigham (Dryden, 1974). Ch. 25.	Essentials of Managerial Finance, 3d- ed., Wesson & Brigham (Dryden, 1974). Chs. 7- 9, 13-17, 21.
(2) Return on investment studies—Evaluate efficiency of capital use, allocate capital among business segments, establish profit responsibilities.	Cost Accounting—A Managerial Emphasis, 3d ed., Horngren (Pren- tioe-Hall, 1972). Ch. 21. and Managerial Account- ing, 3d ed., Moore & Jaedicke (South- Western, 1972). Ch. 5.	Same citation as level 1.
(3) Capital expenditure analysis and property management—Select among competing capital acquisitions, provide for proper use of property and movement of capital to most productive property forms.	Basic Business Finance, 4th ed., Hunt, Williams, & Donaldson (Irwin, 1971). Chs. 8,9,10.	Financial Analysis to Guide Capital Expen- diture Decisions, NAA Research Report 45, (National Association of Accountants, 1967). Cha. 1.2,5.
(4) Lease or buy analysis—Studies to determine most cost-effective form of asset control.	Basic Business Finance, 4th ed., Hunt, Williams & Donaldson (Irwin, 1971). Ch. 22.	Same citation as level 1.
(5) Merger and acquisition condidate finan- cial evaluation—Determining candidate qualifications; evaluating qualifications against those established for acceptable candidates.	Essentials of Managerial Finance, 3d ed., Weston & Brigham (Dryden, 1974). Ch. 23.	Conference on Mergers and Acquisitions, Hofstra University, 1968, Easton & Broser (McCuichan, 1970). Part I.
(6) Forms of business entity— Proprietorship, partnership, corpora- tion: if one of the laster two, the structure alternatives and probable operating- characteristics of each.	American Business: An Introduction, 3d ed., Mauer & Schwarz (Harcour Brace Jovanovich, 1974). Chs. 3,6,7,8,28.	Same citation as level 1.
<ol> <li>Management Planning, Reports and Controls— Development and presentation of management and operating plans; reports on activities for comparison against plans; conformance of activities with plans.</li> </ol>	•	
<ol> <li>Annual Financial Planning and Budgeting—Developing and installing an operating budget system in an organisation.</li> </ol>		
(1) Annual planning guidelines—Setting procedures, cutoff dates, and economic assumptions for preparation of annual	Budgeting: Profit Plan- ning and Control, 3d ed., Welsch (Premier-	Same citation as level 1.

Budgeting: Profit Planning and Control, 3d ed., Welsch (Prentice-Hall, 1971). Chs. 5-11.

The Capital Budgeting Decision, 3d ed., Bierman (MacMillan, 1971). Chs. 1-7. Budgeting: Key to Planning and Control, rev. ed., Jones & Trentin (AMA, 1971). Cha. 3,5,6,7.

Budgeting: Key to Planning and Control, rev. ed., Jones & Trentin (AMA, 1971). Ch. 8.

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procedures, cusoff dates, and economic assumptions for preparation of annual budget by profit and cost responsibility Hall, 1971). Chs. 1,2,3,4.

centers.

(2) Functional area budgets—
Administration, documentation, and
objectives of budgeting process, scheduling, review of budget, revision of budget;
review and participation at top management levels; use of flexible budgets.

(3) Capital expenditures planning and budgeting—Coordination of capital budget with functional area budget and business policies.

	(4) Budget consolidation and review— Consolidation of product-line and divi- sion sales and cost center budgets; use of financial models to evaluate alternative operating strategies; final budget revi- sion and approval cycle.	Budgeting: Profit Plan- ning and Control, 3d ed., Welsch (Prentice- Hall, 1971), Chs. 12-15	Budgeting: Key to Planning and Con- trol, rev. ed., Jones & Trentin (AMA, 1971). Chs. 13,14.
b.	Internal Performance Analysis and Repcing—Adapting information to serve specific managerial needs through reclassifying, summarizing, and arranging it in different ways; comparing actual and budgeted values of recognized performance measures; identifying significant differences and systematically bringing them to the attention of managers of appropriase responsibilities and levels.		
	<ol> <li>Product profitability—Product lines, regional and demographic markets, long- and short-term perspectives; fixed, semifixed and variable costs, price determination, reporting.</li> </ol>	Cost Accounting: A Managerial Emphasis. 3d ed., Horngren (Prenuce-Hall, 1972). Chs. 3,11,26.	Profitability Account- ing for Planning and Control, 2d ed., Bever & Trawicki (Ronald, 1972), Chs. 2,7,8,11.
	(2) Business segment profitability— Segmentation and control responsibility definitions, budget responsibility, related to long-range plans, control, and documentation.	Cost Accounting: A Managerial Emphasis, 3d ed., Horngren (Prentice-Hall, 1972). Ch. 21.	Divisional Perform- ance: Measurement and Control, 2d ed., Solomons (Dow Jones —Irwin, 1968). Entire text.
	(3) Project and supportive function budgeting—Program budgets; project selection; management and control; planning and budgeting supportive services such as maintenance and	No citation at level 1.	Financial Analysis to Guide Capital Expen- diture Decisions, NAA Research Report 45 (NAA, 1967), Chs. 4,5.

Level | References

Level 2 References

(4) Responsibility reporting—Design of accounts to support reporting and planning activities to individuals responsible for them; identifying individual responsibility; recording and reporting information including variances (actual vs. budgeted differences).

research.

Summary Descriptions

- (5) Data for tax returns and tax planning— No citation at level 1. Nature of taxes; framework of federal taxation of business and industry; selected issues such as interperiod income tax allocation, loss carrybacks and carryforwards, accrual alternatives, taxing capital gains.
- (6) Internal-external reporting rela-tionships—Historical, financial, and statistical data, need for performance measures that increase profit and other outside measures of performance.
- Major Financial Subsystems—Support for the organisation's financial policies, accounting system, and internal accounting policies.
  - Accounting Transaction System—Data handling, ledger account processing, and financial control of accounting data.

Cost Accounting: A Managerial Emphasis, 3d ed., Horngren (Prentice-Hall, 1972).

Chs. 5,6.

Tax Guide for Small Business, (IRS, current vear). Entire text.

Complete Guide to Project Management. Lock (Cahners, 1969). Entire text.

Profitability Accounting for Planning and Control. 2d ed., Bever &

1972). Ch. 4 appendix.

Trawicki (Ronald.

ning and Control, ment Ratios, Westwick 3d ed., Welsch (Prentice- (Wiley, 1973), Part I. Hall, 1971). Chs. 15.16.17.

Budgeting: Profit Plan- How to Use Manage-

#### Level | References

#### Level 2 References

(1) Accounting and data storage systems-Entry systems, transaction types, and handling paints of origination, documentation, and controls; safeguarding of records; documents of original entry; voucher preparation.

Fundamentais of Financial Account Tracy (Wiley, 1973). Chs. 2.3.

Same citation as level 1.

(2). Chart' of accounts development— Control accounts; contra accounts; coding systems; creation of accounts; revenue and expense accounts; organization considerations; data processing and 1974). Ch. 2. control considerations; technology considerations.

Intermediate Accounting, 3d ed., Meigs, Mosich, Johnson & Keller (McGraw-Hill,

Some citation as level 1.

(3) General ledger and financial reporting Intermediate Accountsystem—Subledgers, control ledgers, entries in "journals" and transference to ledgers; trial balance; statement preparation from ledger account balances; sales, payroll, purchase, assets, expenses.

ing, 3d ed., Meigs, Mosich, Johnson & Keller (McGraw-Hill, 1974). Ch. 2.

General Ledger and Financial Reporting System, (Software International, 1974). En-

(4) Accounting periods, accrual practices and accounting conventions-Business cycle; revenue and cost recognition; annual and interim accounting statements; selecting annual closing date, cutoffs, depreciation depletion, and amortization alternatives; receipt of assets and supplementary accounting statements; price-level accounting.

Intermediate Accounting, 3d ed., Meigs, Mosich, Johnson & Keller (McGraw-Hill. 1974). Chs. 3,4,11,12,-16,17.25.

Same citation as level 1.

(5) Accounting systems design concepts and consideration-Types of activities such as purchasing, billing, credit and collection; their incorporation into financial transaction subsystems; accounting procedures, flows and concepts such as receipt of order, shipment on credit. collection of cash; accrual basis, generation of statements.

Fundamentals of Financial Accounting, Tracy (Wiley, 1974). Chs. 4,5,6,7,8,9

Corporate Treasurer's and Controller's Encyclopedia, rev. ed., Goodman (Prentice-Hall, 1975). Chs. 16,28. and

and Intermediate Accounting, 3d ed., Meigs, Mosich, Johnson & Keller (McGraw-Hill, 1974). Ch. 6.

Modern Accounting Systems, 4th ed., Livingstone & Kerrigan (Ronald, 1975). Ch. 9-14,16,17.

(6) Payroll and labor distribution-Internal control considerations, objectives of labor and payroll considerations; degrmination of payroll tax and fringe benefits; reporting labor cost in products and services.

b. Cost Accounting and Reporting-Cost measurement; recording and estimating systems in an organization.

Cost Accounting: A Managerial Emphans, 3d ed., Horngren (Prentice-Hall, 1972). Ch. 19.

Corporate Treasurer's and Controller's Encyclopedia, rev. ed., Goodman (Prenuce-Hall, 1975). Ch. 19.

and Modern Accounting Systems, 4th ed., Livingstone & Kerrigan (Ronald, 1975). Chs. 18,19.

(1) Production costs-Cost system related to Cost Accounting: A nature of operation (job, assembly, process); cost classification, including 3d ed., Horngren overhead and indirect cost distribution; (Prentice-Hall, 1972). inventory valuation and control.

Chs. 4.12.17.

Actualty Costing and Input-Output Account ing, Staubus (Irwin, 1971). Enuire text. and

Modern Accounting Systems, 4th ed., Livingstone & Kerrigan (Ronald, 1975). Chs.

- (2) Standard costs establishment—Cost characteristics; engineered and managed costs; processing and uses of standard costs; assignment of indirect costs by activity levels.
- (3) Spoilage, waste and scrap—Normal and abnormal waste; accounting for spoilage, waste, and scrap; relation to joint-product accounting controls.

#### Level | References

Cost Accounting: A Managerial Emphasis, 3d ed., Horngren (Prentice-Hall, 1972). Chs. 7.8,9.

Cost Accounting: A Managerial Emphasis, 3d ed., Horngren (Prentice-Hall, 1972), Ch. 18.

#### Level 2 References

Handbook of Modern Accounting, Davidson (McGraw-Hill, 1970). Ch. 39.

Same citation as level 1.

# Electronic data processing

(Short explanations and references are representative and not exhaustive)

#### **Summary Descriptions**

#### Systems and Data Processing Management— Organization and operation of the EDP service in an organization, including its relations with other departments in the organization, efficient utilization of resources for routine data processing services, development of new services, framework for assigning responsibility and measuring performance.

- a. Organization—Definition of EDP line and staff positions, coordination levels, steering committees, organization charts, and standards for development of systems and services by EDP management.
- b. Relations with Users of EDP Services— Interactions between EDP function and other organization divisions, especially in regard to development and/or modification of existing EDP services and development of new EDP services.

#### Level 1 References

#### Level 2 References

Information Processing Management, Seweds (Auerbach, 1972). Ch. 3.

Managing the EDP Function, Ditri, Shaw & Atkins (McGraw-Hill, 1971). Ch. 4.

Data Processing Administration: Handbook of Data Processing, Vol. 6. Rubin (Brandon, 1971). Ch. 1

Information Processing Management, Szweda (Auerbach, 1972). Ch. 6.

Organization and Management of Information Processing Systems, Albrecht (Macmillan, 1973). Cha. 4-8.

- 2. EDP Systems Planning and Control—Planning and development of EDP services required to support corporate business objectives over a three- to five-year planning horizon; design of systems to provide these services in adequate detail to meet requirements of corporate and user department management; determining economics of new services; planning accurate installation schedule; programming and testing of designed system; installation of the completed system and conversion to the new system including all non-EDP changes and human resources training, as made necessary by the new EDP system or service.
  - a. Forecasting Organization Requirements for EDP Services—Management information systems and operational systems required to support the business plan; developing priorities for satisfying these requirements.
    - (1) Overall EDP strategy—Management information and operational systems definitions and description; issues such as centralized or decentralized EDP operations; systems development and systems mannerance activities.

Management Information Systems: Conceptual Foundations, Structure and Development, Davis (McGraw-Hill, 1974). Ch. 14.

The Organisation of the Data Processing Function, Withington (Wiley-Interscience, 1972). Chs. 2.3,6,7.

- (2) Hardware and software—Computer hardware, communications hardware, control software and data management software required to support the systems developed over the planning horizon; allowance for hardware/software flexibility.
- (3) Scheduling planned conversions—Process of allocating resources for planned conversions; breaking projects into segments for implementation; anticipating conversion manpower skills and levels required.
- (4) EDP departmental budget—Budget for EDP services for three to five years.
- EDP Systems Design—Creation of comprehensive hardware-software-human plans for providing required information or operational services to the organization.
  - (1) Information requirements— Information and operational requirements of EDP service users identified in terms of specific data inputs, outputs, and processing functions.
  - (2) Design of files, processing system and input transactions—Content and organization of master files; define input source documents for each input data element; input validation; master file updating and reporting.
  - (3) Flowcharting and decision tables— Description of system functions through logical flowcharts and decision tables.
  - (4) Documentation—Administrative project files; systems design and installation work papers; production systems to support documentation and clerical operating procedures.
  - (5) Human factors engineering— Compatibility of system with existing organization and staff; planning for systems change and employee retraining.

Management Information Systems: Conceptual Foundations, Structure and Development, Davis (McGaw-Hill, 1974). Ch. 9.

Information Systems for Modern Menagement, 2d ed., Murdick & Ross (Prentice-Hall, 1975). Ch. 10.

Management Control of Information Systems Development, Sollenberger (National Association of Accountants, 1971). Ch. 6. Computer-Based Management Information Systems, Kraues (AMA, 1970). Cha. 4-7.

Data Processing Administration: Handbook of Data Processing Management, Vol. 6, Rubin (Brandon, 1971). Ch.12.

Data Processing Administration: Handbook of Data Processing Management, Vol. 6, Rubin (Brandon, 1971). Ch. 4.

Information Systems: Theory and Practice, Burch & Strater (Hamilton, 1974). Ch. 10 & Appendix C.

Information Systems for Modern Menagement, 2d ed., Murdick & Ross (Prentice-Hall, 1975), Cha. 8.9.

Computer Data Processing, Davis (McGenw-Hill, 1973). Ch. 9.

Handbook of Data Processing Management, Vol. 2: System Life Cycle Standards, Rubin (Brandon, 1970). Ch. 8.

Computers: A Systems Approach, Chapin (Van Nostrand Reinhold, 1971). Ch. 21. Business Systems and Data Processing, Clark, Gale & Gray (Prentice-Hall, 1972). Chs. 9-10.

Information Systems for Operations and Management, Voich, Mottice, & Shrode (South-Western, 1975), Chs. 8-10.

Computer-Oriented Business Systems, 2d ed., Boutell (Prentice-Hall, 1975). Ch. 4.

Documentation Standards, London (Petrocelli Books, 1974). Entire text.

The Human Side of Data Processing Management, Wadsworth (Prentice-Hall, 1973). Entire text.

c. Equipment and Software Evaluation—Indepth comparative analysis of a wide range of comparative transparative and software combinations relative to the EDP systems design parameters; defining selection criteria for vendor proposals, developing specifications for hardware and software; evaluating vendor proposals, contract negotiations; evaluation of alternative methods of acquiring and financing hardware and software.

Information Processing Management, Seweda (Auerbach, 1972). Ch. 9. Data Processing Administration: Handbook of Data Processing Management, Vol. 6, Rubin (Brandon, 1971). Chs. 7-9.

v market pro-

d. Specialized Technical Systems-Design and implementation of specialized EDP techniques such as control functions, direct file access techniques and file organization, online data communication, interactive processing, and time-sharing-if called for by system plans.

**Summary Descriptions** 

- (1) Systems softwere-Evaluate and implement vendor programs interfacing between application programs and computer hardware.
- (2) Data base management and data dic-tionary software—design of systems to control advanced direct access file organization and file access; definition data characteristics for use by data administrator.
- communications—Design of remote-to-central-processor links for online collection and batch processing; onling control software; network configurations.
- (4) On-line systems-Design of systems for interactive processing for inquiry and on-line update processing; checkpoint resurt; file backup and recovery; techniques to maximize throughput to retain design response time.
- (5) Time-sharing-Design of interactive Computer Data time-sharing systems.
- e. EDP Systems Installation—Develop schedule for achieving installation; economic evaluation of installation plus operation of new system versus continued operation of existing system; final systems programming, testing, conversion
  - (1) Installation schedule-identify activities, manpower, and costs required to perform the detailed design, programming, systems testing, and conversion; schedule activities; use PERT-CPM and/or other techniques to monitor installation development and adjust for schedule slippages.
  - (2) Economic evaluation; presentations to management—Analyze benefits of the new system versus continued operation of old system; presentation to management of alternatives.
  - (3) Final systems programming and testing-Development of the operational computer program from specifications; coding of program tests; applying tests of individual system components including user procedures. data processing control procedures, computer programs, and specialized technical systems.

Managing the EDP Function, Ditri. Shaw & Arkins (McGraw-Hill, 1971). Ch. 11.

Information Systems: Theory and Pracnce, Burch & Strater (Hamilton, 1974), Ch. 6.

Computer Deta Processing, Davis (McGraw-Hill, 1973).

Design of On-Line Computer Systems. Yourdon (Prentice-Hall, 1972). Part I.

Processing, Davis (McGraw-Hill, 1974).

Ch. 21.

Theory and Prectice. Burch & Strater (Hamilton, 1974). Chs. 14,15 & Appendix A.

Fundamentals of Systems Analysis. FitzCerald & FitzGerald (Wiley, 1973). Chs. 10.11.

Handbook of Date Processing Management. Vol. 2: Introduction to the System Life Cycle, Rubin (Brandon, 1970). Ch. 4.

Software Selection. Wooldridge (Auerbach. 1973). Chs. 4-9.

Data Management Systems, Cagan (Melville, 1973). Entire text.

Systems Analysis for Data Transmission, Martin (Prentice-Hall, 1972), Chs. 5.6.

Design of On-Line Computer Systems. Yourdon (Prentice-Hall, 1972). Part II

DATAPRO 70: The EDP Buyer's Bible (DATAPRO Research Corp.; Monthly Up-dated Service).

Administering and Controlling the Company Data Processing Function, Krauss (Prentice-Hall, 1969). Chs. 1-4.

Same citation as level 1.

Menaging a Programming Project. Metage (Prentice-Hall, 1973).

# Level | References

# Level 2 References

(4) Final systems conversion—Integrated systems testing including all programs and procedures; application of clerical controls and procedures; including manuals; training of all personnel affected by the new system.

Information Systems: Theory and Procuce, Burch & Strater (Hamilton, 1974). Ch. 14.

Data Processing
Administration: Handbook of Date Processing Manage-ment, Vol. 6, Rubin (Brandon, 1971). Che, 12.14

Security, Accuracy and

Privacy in Computer Systems, Martin

(Prentice-Hall, 1973).

Security, Accuracy and

Privacy in Computer Systems, Martin

Prentice-Hall, 1973). Part III (Chs. 24-29.)

Security, Accuracy and

Privacy in Computer

(Prentice-Hall, 1973). Chs. 9-25.

Systems, Marun

Part VI (Chs. 30-37.)

- 3. EDP Operations and Facilities Administration—Evaluating and susmining effectiveness of EDP operations and services: monitoring computer systems operations and procedures to assure accurate entering, processing, and reporting of data; review of hardware and personnel operating effectiveness.
  - a. Operations Accuracy and Facilities Security-Administrative, physical, program and data, clerical, and user controls over operations to assure accuracy of EDP SETVICES.
    - (1) Administrative controls—Separation of EDP: Controls and operating responsibilities: hardware backup: rountion of duties; maintaining acceptable state of operator and other specialists' skills.
    - (2) Physical security—Assure only authorized entry to premises; prevent deliberate or accidental damage or destruction to EDP facilities.
    - (3) Program and data security-Assure only authorized access to data; prevent deliberate or accidental alteration or destruction of data; assure correct program processing of valid informa-tion; provide reconstruction if data is loss.
    - (4) Input, output, and programmed controls-Clerical controls within EDP department and programmed controls within computer systems to verify receipt, processing, and output of data; proper distribution of output data; user controls to verify correct processing of data.
- b. Evaluation of Operations Performance-Procedures and reports to appraise and modify performance of EDP hardware, software, and personnel relative to operating goals.
  - (1) Equipment and software evaluation—
    Computer hardware and software adeManagement, quacy to meet current and future operating requirements; review of operating logs and monitor reports; physical observation.
  - (2) Operations evaluation—Operator run Managing the EDP Operations evaluations—Operator run managing ine autobooks, disk storage user charts; computer function, Ditri, 
    scheduling; utilization reporting; file 
    library; routine systems and program 
    (McGraw-Hill, 1971). 
    testing and performance evaluations from EDP services users.

Auditing, Porter (Wadsworth, 1974).

Computer Security Management, Van Tassel (Prentice-Hall, 1972), Ch. 2.

Computer Security Management, Van Tassel (Prentice-Hall, 1972). Chs. 5-9.

EDP: Controls and Auditing, Porter (Wadsworth, 1974). Che. 6,7.

Security, Accuracy and Privacy in Computer Systems, Martin (Prentice-Hall, 1973). Chs. 6-18.

Management, Kinde (Prenuce-Hall, 1973). Ch. 8.

Administration, Mc-Farland, Nolan, & Nor en (Holt, Rinchart & m, 1973).

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# **Operations**

Short explanations and references are representative and not exhaustive:

		Summery Descriptions	Level 1 References	Level 2 References
1.	Nat turc type assi peri mir	pretions Organization and Structure— ure of the operations organizational struc- it is policies and objectives; organizational is and component elements; a framework for gring responsibility and measuring formance. These concepts apply to ad- histrative office functions as well as to nufacturing and service industry operations.		
	a.	Line and Staff Functions—Lines of authority, coordination levels; committee formulations; organization charts.	Manufacturing Management, 4th ed., Moore (Irwin, 1965). Chs. 2,3,4.	Production Handbook, 3d ed., Carson, Bolz and Young (Ronald, 1973). Ch. 1.
	b.	Job Responsibility and Performance—Job definitions: charters of responsibility; management performance objectives.	Job Evaluation: Text and Cases, 3d ed., Pas- ton, Littlefield & Self (Irwin, 1964). Parts II,III.	How to Use Management Ratios, Westwick (Gower, 1973) Part 1 & 2: Chs. 7.9.11.
	•	Information Flow—Analysis of flow between line operations and staff functions; transaction flow; formal reports; informal meetings.	No citation at level 1.	Handbook of Modern Manufacturing Manage- ment, Mavnard, (ed.) 'McGraw-Hill, 1970). Section 2.
-	res ma all fee	perations Planning and Control—Supports ource planning activities in both the inulacturing and service industries: resource or ation alternatives; provides the reporting dhack to gauge performance vs. the operating in.		
	4.	Capacity Planning—Setting the level of capacity in terms of facility, manpower, and material resource availability.		
		<ol> <li>Final product demand forecasting— Relating historical and current customer order patterns and economic activity levels to future production re- quirements.</li> </ol>	Production-Invento y Systems: Planning and Control, rev. ed., Bulla & Taubert (Irwin, 1972). Ch. 2.	Production and Inven- tory Control Hand- book, Greene (McGraw-Hill, 1970). Ch. 8
		(2) Capacity loading—Infinite loading, finite loading; definitions of theoretical, standard, and rated capacity levels; machine-paced activities. manpower- paced activities.	Production and Inven- tory Control, Ploud & Wright (Prentice-Hall, 1967). Ch. 9.	Communications Oriented Production In- formation and Control Systems, vol. 5, (1BM G520-1973), Ch. 6.
	h.	Production Planning—Setting the master operations plan and assignment of resources through evaluation of capacity, availability, forecasted demand, backorder levels and current finished goods inventory levels.	Production-Inventory Systems: Planning and Control, rev. ed., Buffa & Taubert (Irwin, 1972). Chs. 5.6,7.	Production and Inven- tory Control Hand- book, Greene (McGraw-Hill, 1970). Chs. 9.11.
	( .	Materials Planning—Setting the master materials requirements plan based upon the time-phased requirements of the master operations plan.	Materials Requirements Planning, Orlicky (McGraw-Hill, 1975). Parts I,II,III.	Materials Re- quirements Planning, Orlicky (McGraw-Hill, 1975). Parts IV.V,VI.
	d.	Manpower Planning—Setting the operations manpower plan based upon the time-phased analysis of skill level requirements needed to support the master operations plan.	Board, 1971). Chs. 1-4.	
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			<b>B</b> a <sub>→</sub>	

Sonulation—Model formulation, computer implementation, validation methods; analog, iconic, and symbolic models; adequacy of representation; static and dynamic sunulation methods; deterministic and Monte Carlo approaches.

#### Level 1 References

Principles of Operations Research, Wagner (Prentice-Hall, 1975) Ch. 21.

System Simulation, Gordon (Prentice-Hall, 1969). Chs. 1-4.6,7,8.

#### Level 2 References

Computer Simulation Techniques, Navlor, Balintis, Burdick & Chu - Wiley, 1966). Entire (ext.

Simulation in Business and Economics, Meier, Newell & Pazar (Prentice-Hall, 1969) Chy. 3,4,5,7,8,9.

- Management Science Application Areas— Management science models and techniques are broadly applicable throughout the range of organizational activity. Knowledge of application areas is an essential part of a management wientist's proficiency. The application areas are numerous and include specific industry applications as well as functional applications. The following is a partial list of application areas in which the applications have become a part of the management sciences body of knowledge.
  - General Management—Corporate planning, investment analysis: acquisition inalysis: plant site selection; new product evaluation; project control; R&D planning and project selection; personnel scheduling.
  - b Finance and Accounting—Financial planning projections: cash flow forecasting; capital investment performance forecasting; credit analysis; long-range financial strategy; capital structure analysis; lease huy decisions; reserves determination; auditing (sampling plans, and auditor-assignment scheduling).
  - Operations—Multiplant production allocation: inventory management: production planning and scheduling; job scheduling and control; ingredients blending; routine and sequencing of materials flow; facilities and process layout; line balancing and pacing; shop loading and capacity planning; quality control; product reliability.
  - d. Marketing—Sales forecasting; market share analysis; product mix analysis; advertising media selection; sales force planning and control; advertising budgeting and planning; product-line planning; promotion budgeting and planning; distribution and logistics applications such as; facilities location, product routing, mode of transportation analysis, carrier routing and scheduling; multilocation inventors planning and control.

Executive Decisions and Operation Research, Miller & Starr (Prentice-Hall, 1960). Entire text.

Information for Decision Making, 2d ed., Rappaport (Prentice-Hall, 1975). Entire text.

Industrial Operations Research, Fabrycky, Ghare & Torgerson (Prentice-Hall, 1972). Chs. 4.5.6.

Quantitative Analysis for Marketing Management, King (McGraw-Hill, 1967). Chs. 4-11. Scientific Decision Making Business, Schuchman (Holi, Rinchart & Winston, 1963), Parts LIII IV

Corporate Similation Models, Schreiber University of Washington, 1970 Entire text

Production and Operations Management, Cassett Hatcourt Brace & World, 1980 Entire test Operations Research in Production Planning Scheduling and Inmitter Control. Johnson & Montgomers (Wiley 1971) Chy 1/5

Application of Management Sciences in Marketing, Montgomers & Urhan Prentice Hall, 1969 Chs. 2.7

Applications of the Sources in Marketing Management, Bass, King & Pessemier (Wiley, 1960). Clis 1 n 9 10,11-13

hummary	Descriptions

#### Level 1 References

# Level 2 References

- Operations Scheduling and Control— Converting the master operations plan into detail schedules that specify date and time requirements for facilities, materials, and personnel with the aim of optimizing the unitization of these resources.
  - (1) Resource schoduling techniques-Gantt charts and line-of-balance; queuing analysis; dynamic and linear program simulations; assembly line balancing; key resource profit contribution approach.
  - (2) Office manpower scheduling-Peak period scheduling, work load leveling, work sequencing, overtime, and subcon-tract services scheduling.
- f. Operations Status and Periormance Reporting-Analyzing the efficiency and utilization of input resources to produce linished goods; production status reporting against master operation plan.
  - (1) Data collection procedures-Reporting of personnel time and facility use, use of job order tickets, time cards, work center production reports.
  - (2) Management reporting-job status, labor utilization, efficiency productivity; machine utilization and efficiency; rework and backlog; accident prevention; reporting energy utilization; social impact reporting; use of cost variance reports.
- 3. Operations Processing Functions-This area defines the functional activities that sequentially support the production flow.
  - a. Product Design-Specifying the shape, No citation at level 1. composition, performance, and quality characteristics of the product by means of drawings, instructions, standard practices, and design engineering information such as coding and specification of product, parts and formulas, bills of material, assembly configuration control, engineering change control.
  - Maintenance Engineering-Scheduling of Effective Maintenan maintenance and inspection; routing Management, New-preventive maintenance; shut down and brough (McGraw-Hill, overhaul project control; repair recordkeeping.
  - Customer Order Processing-Receiving and approving orders; shipment date notification and back order control; returned goods authorization; receipt control.
  - d. Procurement-Securing materials supplies at a minimum cost in the quantity, quality, and timeliness needed to support production.
    - (1) Request for quotation-Vendor selection criteria and evaluation; request for quotation control: blanket order

Production Planning and Inventory Control, 2d ed., Magee and Boodman (McGraw-Hill. (967). Ch. 9.

No citation at level 1.

Office Efficiency, Grillo (McGraw-Hill,

Office Operations Improvements, Payne & Swett (AMA, 1967). Chs. 7.8.

Office Operations Improvements, Payne & Swett (AMA, 1967). Chs. 9.10.

(McGraw-Hill, 1970). Chs. 20,21,25. Control Techniques for

Production and Inven-

tory Control Hand-

book, Greene

1963). Ch. 7.

Production and Inventory Control Handbook, Greene (McGraw-Hill, 1970). Chs. 20.21.25.

Same citation as level 1.

Fundamentals of Configuration Management, Samaras k Czerwinski (Wiley-Interacience, 1971). Parts I,II,III.

1967). Sec. I and Ch. 18.

Management-Oriented Management Information Systems, Kanter (Prentice-Hall, 1972), Chs. 1-4.

Handbook of Modern Manufacturing Management, Maynard (McGraw- Hill, 1970). Sec. 6.

**Oriented Production** Information and Control Systems, vol. 2, (IBM G320-1975).

Modern Procurement Management, 5th ed., England (Irwin, 1970). Chs. 2,3,4,8,9.

Purchasing Handbook, 3d ed., Alijan (McGraw-Hill, 1973). Chs. 5,6.7,11,27,28.

(2) Purchase order release—Open order control; order size and lot release size determination; shortage and late shipment expediting.

Modern Procurement Management, 5th ed., England (Irwin, 1970). Ch. 7.

Production-Inventory Systems: Planning and Control, rev. ed., Buffa & Taubert (Irwin, 1972). Ch. 3. Communications Oriented Production Information and Control Systems, vols. 4 & 7 (IBM G320-1980). Chs. 5,10.

e. Order Scheduling—Assigning finished goods production to customer orders, expediting production on critical orders; dispatching procedures; identifying deviations from schedule; scheduling techniques such as CPM, Pert, and other network analysis techniques; parallel scheduling.

Production-Inventory Systems: Planning and Control, rev. ed., Buffa & Taubert (Irwin, 1972). Chs. 11,12,13. Communications Oriented Production Information and Control Systems, vols. 5, 6 (IBM G320-1978, 1979). Chs. 7.8.

Scheduling Handbook, O'Brien (McGraw-Hill, 1969). Chs. 2,3,4, 5.7.

 Manufacturing Engineering Information— Manufacturing bills of materials, tooling, and equipment specification: fabricated parts routings; assembly and process information; make/buy decision analysis. Scientific Programming in Business and Industry, Vazzonyi (Wiley, 1958). Ch. 16. Communications
Oriented Production
Information and Control Systems, vol. 4
(IBM G320-1977).
Ch. 5.

g. Materials Control and Handling— Establishing the best methods for storing and transporting materials within the operations facility.

 Material and component availability— Vendor lead-time checking; projected shortage identification and expeditings scrap control, cycle counting.

Materials Management, 3d ed., Ammer (Irwin, 1974). Ch. 14. Communications
Oriented Production
Information and Control Systems, (IBM
G320-1977). Ch. 5.

(2) Meterials requisitioning and control— Implementing material ordering rules, reorder points, safety stock levels; short-term materials scheduling; requisitioning and updates to master materials Production-Inventory Systems: Planning and Control, rev. ed., Bulla & Taubert (Irwin, 1972). Parts I,II. Production and Inventory Control Handbook, Greene (McGraw-Hill, 1970) Chs. 14-16.

(5) Materials handling—Design and setup of materials flow and storage prior to and during operations, traffic, receiving, storeskeeping, kitting, finished goods warehousing, and shipment product packaging. Material Handling Systems Design, Apple (Ronald, 1972). Chs. 1-3.6,7. Material Handling Systems Design, Apple (Ronald, 1972). Chv. 11-15.

 Quality Assurance—Setting quality accepuance standards and criteria for component purchase parts, in-process impection, and finished goods reliability.

 Statistical criteria—Quality control decision rules, sampling and rejection probabilities, and confidence intervals; use of control charts.

3d ed., Duncan (Irwin, 1965). Parts II,IV,V. Quality Planning and Analysis, Juran &

Quality Control and

Industrial Statistics,

Quality Control Handbook, 3d ed., -juran (McGraw-Hill, 1974). Sec. 22,23,24.

(2) Inspection methods—Inspection tools, methods, and locations; purchased parts reject control; process control and batch tests; assembly reliability tests.

Grynn (McGraw-Hill, 1970). Chs. 14-23. Quality Planning and Analysis, Juran & Grynn Quality Control Handbook, 3d ed., Juran (McGraw-Hill, 1974). Sec. 12.13.

(3) Customer services and complaint analysis—Repair or replace decisions, field failure investigation, and product design revision recommendations; field failure reports. Quality Planning and Analysis, Juran & Gryna (McGraw-Hill, 1970).
Chs. 24-28. (McGraw-Hill, 1974).

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- † Important Applications in Operations— Specific knowledge related to certain applications is necessary to complete the operations body of knowledge.
  - a. Inclustrial Engineering and Standards Development—Designing efficient layouts of work stations and setting standards and procedures for individual group and performance levels at work stations in the manufacturing plant and in office servtce operations.
    - Performance standards development— Work measurement using time logs; work sampling: time study; methods study; time measurement; learning curve analysis; job descriptions and procedures, documentation and manual preparation.
    - (2) Work methods analysis and simplification—Forms evaluation, design, and simplification; mechanization of repetitive tasks.
    - (3) Plant layout—Design of flow patterns for process, assembly, and job shop facilities; queuing analysis of service areas: environmental factors.
    - (4) Office layout—Office space studies; selecting equipment and mechanical aids; security analysis; work flow patterns; environmental factors.
    - (5) Systems and procedures—Design and installation of systems and procedures including forms, schedules, and other necessary documentation.
  - Office Management—Coordinating the various office services including communications, records management, mailing and reproduction, and providing for efficient office furnishings and data handling equipment.
    - Communications—Design of internal mail systems; evaluation of reproduction equipment and data transduction equipment; data transmission lines, their use and control.
    - (2) Records management—File space allocation and arrangement; indexing procedures; file storage and record retrieval systems; security and government regulations; central filing systems and procedures.
    - (5) Secretarial and clerical services— Application and utilization of word processing centers; tape and magnetic card typing, and data input machines; manual record-keeping and tabulating equipment.

Motion and Time Study: Design and Measurement of Work, 6th ed., Barnes (Wiley, 1968). Entire text.

Administrative Office Management, 6th ed., Neuner, Keeling, & Kallaus (South-Western, 1972). Cha. 15-19,23.

Plant Location, Layout, and Maintenance. Reed (Irwin, 1967). Part II.

Office Space Administration, Ripnen (McGraw-Hill, 1974). Entire text.

No citation at level 1.

Administrative Office Management, 6th ed., Neuner, Keeling & Kallaus (South-Western, 1972). Chs. 7.9.

Information and Records Management, Maedke, Robek, & Brown (Glencoe, 1974). Parts 2-6.

Management Services by Accounting Firma, Arnsiein (Ronald, 1967). Part IV. Handbook of Modern Manufacturing Management, 3d ed., Maynard (McGraw-Hill, 1970). Section 3: Ch. 8.

Handbook of Modern Office Management and Administrative Services, Heyel (McGraw-Hill, 1972). Section 5.

Handbook of Modern Manufacturing Management, 3d ed., Maynard (McGraw-Hill, 1970). Section 3, Ch. 2.

Management Objectives in Office Design: Planning and Implementation, White (Industrial & Commercial Techniques, 1971). Entire text.

Systems and Procedures: A Handbook for Business and Industry, 2d ed., Lazarro (Prentice Hall, 1968). Entire text. Handbook of Modern Office Management and Administrative Services, Hevel (McGraw-Hill, 1972). Section 5, Chs. 1.2,3,4,9.

Handbook of Modern Office Management and Administrative Services, Heyel (McGraw-Hill, 1972). Sec. 4, Chs. 4-7,11-13.

Handbook of Modern Office Management and Administrative Services, Heyel (McGraw-Hill, 1972). Sec. 4, Chs. 8-10.

Handbook of Modern Office Management and Administrative Services, Hevel (McGraw-Hill, 1972), Sec. 4, Chs. 1-3.

Office Planning for Profit, Chambers (Business Books, 1972). Entire text.

(4) Propering administrative menuals— Manual planning and organization, writing style—roduction and distribution updat. No citation at level 1.

How to Prepare an Effective Company Operations Manual, Seltz, (Darmell, 1974). Entire text.

# Human resources

(Short explanations and references are representative and not exhaustive)

Summary	Descriptions
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#### Level | References

Level 2 References

- Personnel Management—Major responsibilities relating to human resources management in an organization; functions and situations normally requiring personnel policy; relations and information exchanges with other organization functions.
  - a. Personnel Function Organization—Major responsibilities within the personnel funtion to top management and to other functional divisions in the organization.
  - Industrial and Labor Relations and Working with Unions—Essential principles of industrial relations; characteristics of unions: process of negotiating contracts and operating through a contract
  - c. Legal Aspects of Human Resources
    Management—Overall legal framework
    governing employer-employee relations,
    including familiarity with the major health,
    safety, wage, hours, and antidiscrimination
    provisions of federal fator faw and their
    recent interpretations; role of major federal
    institutions such as the Federal Trade
    Commission and National Labor Relations
    Brard.
- Human Resources Planning and Control— Planning human resources requirements; recruiting, developing, maintaining, and utilising these resources.
  - Responsibility Levels Other Than
     Executive—Policy areas affecting nonmanagerial and lower to middle managerial
    employees.
    - (1) Human resources requirements forecasting—Organizational goal and objective implications for human resources requirements; preparation and use of manpower and skills forecasts; forecasting different skills levels requirements (e.g., executive, specific highly skilled, specific less highly skilled).
    - (2) Hiring practices and programs— Creating or analyzing job descriptions, duties, and skill combinations; developing recruiting programs: determining and comparing qualifications of potential employees for the organization.

Principles of Personnel Management, 3d ed., Flippo (McGraw-Hill,

Successful Labor Relations, rev. ed., Levin (Fairchild, 1967). Secs. I.III.IV.V.IX.

1971). Chs. 3,4.

No citation at level 1.

AMA Management Handbook, Moore (AMA, 1970). Entire text.

How to Manage With a Union, Justin (Industrial Relations, 1989). Book I, Chi. 1-5.

Fair Employment Practices Under Federal Law (Commerce Clearing House, 1975). Entire text.

"Manpower Planning Models and Techniques", Business Horizons, Bryant, Maggard, Erylor (April, 1973), Pp. 69-78.

On Managower Forecasting, Moreon (Upjohn, 1968). Entire text.

Handbook of Wage and Salary Administration, Rock (McGraw-Hill, 1972). Chs. 1-6.

The Recruitment Function, Hawk (AMA, 1967). Entire text. and

Job Descriptions: How to Write and Use Them. Berenson & Rubnke Personnei journal.

(3) Skills development and training-Principles of training program plan-ning, structuring, and administration for existing or new employees, for various levels of responsibility to develop new skills, improve existing skills, and/or learn safe procedures.

Trumme for Development. Lynton & Passek (Irwin, 1967). Entire

Designing Training and Development Systems, Tracey (AMA, 1971). Entire text.

(4) Wage and salary policy formulation-Anticipating need for wage and salary view.

adjustment; criteria for acceptable adjustment policy; process of develop-ing policy to guide wages and salaries re-(5) Employee benefits-Significance of

Personnel: The Management of People at Work, 3d ed., Beach (Macmillan, 1975). Ch. 25.

Handbook of Wage and Salary Administration, Rock (McGraw-Hill, 1972). Chs. 48,49.

employee benefits in terms of size relative to wages and tax status; actuarial principles and application in calculating insurance and other deferred benefits; financial reporting requirements applying to employee benefits; specific legal restrictions and regulations applying to pension, disability, medical, and leave benefits.

Personnel: The Management of People at Work, 3d ed., Beach (Macmillan, 1975). Ch. 29.

Handbook of Wage and Salary Administra-tion, Rock (McGraw-Hill, 1972). Chs. 28-31, 51.

Management Bulletin 59: Employee Benefit and Pension Management (AMA, 1965). Entire text.

Management Bulletin No. 113: Employee Benefit Cost Control (AMA, 1968). Entire text.

Employee Benefit Plan Review (Spencer & Assoc: monthly).

b. Executive Responsibility Levels—Policy areas that appear to uniquely affect only upper management employees.

(1) Executive search-Identifying requirements of an open managerial position; locating and contacting qualified candidates; communication between client and candidate leading to position being filled.

Conjessions of a Corporate Headhunter, Cox (Trident, 1973). Entire text. .

The Handbook of Executive Search, Kennedy (Consultants' News, 1974). Enure text.

(2) Executive compensation—Need for "replacement income" for highly com-pensated executives; relative dollar, tax, and motivational significance of base salary, bonuses, capital accumulation plans (e.g., stock options), and managerial perquisites; use of survey and statistical techniques to establish arm autonomic reconsiques to establish valid comparative data; legal regulatory and financial reporting disclosure re-quirements applying to enscutive com-pensation; businessman's understanding of how profit is produced and relation of various incentive plans to profit production.

Financial Motivation for Executives, Crystal (AMA, 1970). Entire How to Compensate Executives, Cheeks (Dow-Jones-Irwin, 1974). Entire text.

(5) Executive development programs— Anticipating executive talent re-

quirements; recognizing and encouraging such talent to develop within the organization; developing specialized executive training programs for potential and existing managerial talent; of National Affairs, executive responsibility descriptions; 1974). Chs. 1,2,14,15. review of executive performance.

# Level | References

Talent, Miner (Bureau

The Human Constraint: The Coming Shortage of Managerial

A Concise Guide to Management Development, Desatnick (AMA, 1970). Entire text.

Level 2 References

- 3. Human Resources Operations-Techniques and practices that are important in implementing human resources policies of an organization, especially in day-to-day activities.
  - a. Performance Review and Wage Personnel Manage-Classification—Implementing policies for appraising employee performance; communicating performance evaluations to employees: adjusting compensation and responsibility through transfer or promotion to reflect results of performance evalua-
  - b. Employee Relations-Programs and activities conducive to a sale, equitable, enriched work environment.
    - (1) Grievance and disciplinary procedures-Channels for handling grievances; establishing disciplinary procedures and penalties; employee participation in grievance and disciplinary procedures.
    - (2) Health and safety-Maintaining working conditions that are healthy and safe; inspection programs; safety equipment; identifying accident-prone workers; industrial health and safety programs' Ch. 28. organization and function.
    - (3) Environmental enrichment and com- A Guide to Creative munications programs-Sports, com- Personnel Managemunity service, charitable activities; ment, Benton (Prentice-organization newsletters; employee Hall, 1962). Chs. 20,21. suggestion incentive systems; making policies and policy interpretation known to employees.

ment, 8th ed., Jucius (Irwin, 1975). Chs. 11,12.

What to Do About Performance Appressel, Kellogg (AMA, 1965). Entire text.

Personnel: The Management of People at Work, 3d ed., Beach (Macmillan, 1975). Chs. 23,24.

Management of People at Work, 3d ed., Beach (Macmillan, 1975).

How to Manage with a Union, Justin (In-dustrial Relations, 1969). Book I, Secs.

Industry Roles in Health Care (Conference Board, 1974). Entire text.

and OSHA and the Union. Bargaining on Job Safety and Health, A BNA Special Report (Bureau of National Affairs, 1973). Entire

Employee Communications: Policy and Tools. (Conference Board, 1966). Entire text.

New Perspectives in Job Enrichment, Maher (Van Nostrand Reinhold, 1971). Chs. 1,10,11.

(4) fob design and enrichment— No citation at level 1.
Development of interesting jobs; reduction or elimination of dull or boring

New Perspectives in Job Enrichment. Maher (Van Nostrand Reinhold, 1971). Chs. 1.10,11.

# Marketing

(Short explanations and references are representative and not exhaustive)

**Summary Descriptions** 

Level | References

Level 2 References

1. Marketing Administration-The nature of the marketing organizational structure; its policies and objectives; framework for assigning responsibility and measuring performance.

#### Level 1 Reterences

#### Level 2 References

3 Line and Staff Functions-Lines of authority: coordination levels; committees; organization charts

b. Job Responsibility and Performance—Job definitions; charts of responsibility; management performance objectives.

Marketing Management: Analysis, Planning, and Control. 2d ed. Kotler (Prentice-Hall, 1972). Ch. 9.

No citation at level 1.

Handbook of Modern Marketing, Buell (McGraw-Hill, 1970). Sections 7.9.

lob Descriptions in Marketing, Sperling (AMA Research Study 94). (American Marketing Associa-tion, 1969). Entire text.

Information Flow-Analysis of flow between line operations and stall functions; transactions flow; formal and informal information.

Marketing Management: Analysis, Planning, and Control. 2d ed., Kotler (Prentice-Hall, 1972). Ch. 10.

Marketing Information Systems, Schaffir & Trenun (AMACOM. 1973). Chs. 1-7.16.

- 2. Marketing Research, Planning and Control-Planning to develop marketing services related to organizational objectives over a three- to fiveyear planning horizon; development of products and marketing resources to provide these services, determining economics of proposed new products and services; planning schedules to implement marketing programs.
  - a. Marketing Research-Techniques of analysis, investigation, and research used to identify and understand marketing problems and seek solutions to them.
    - behavior and decision (1) Consumer processes-Micro and macro behavior, consumer tactics, social interaction, cultural and reference group effects.
    - (2) Market institutional structure- Marketing: Principles Interrelationships—static and dynamic, and Methods, 7th ed. retail and wholesale, as required to Carman & Uhi (Irwin, understand the significance of a research 1975). Entire text. question of result.
    - (3) Research process-Phases, structure, and policies including administrative fundamentals and project management concepts as well as scientific method applied to research hypotheses.
    - (4) Methods of data collection-Sampling, surveys, interviews, questionnaires, and selection of most appropriate means to obtain the data required.
    - (5) Data evaluation, interpretation and projection-Applied to results of marketing research studies and historical data, using statistical techniques.
  - b. Marketing Plumning and Control-Techniques, skills, and procedures related to all aspects of planning and controlling marketing activities and the marketing function.
    - 1) Marketing Planning-Processes, techniques, and organization for market planning.

Consumer Behavior: Theory and Practice, rev. ed., Walters (Irwin. 1974). Entire text.

Marketing Research: Fundamentals & Dynamics, Zaliman & Burger (Dryden, 1975). Chs. 1-4,14-17.

Marketing Research: Text and Cases, 3d ed. Boyd & Westfall (Irwin. 1972), Chs. 1-11

Research for Marketing Decisions, 3d ed., Green & Tull (Prentice-Hall, 1974). Chs. 8-15,17.

Consumer Behavior: Theory and Application, Farley, Howard & Ring (Allyn & Bacon, 1974). Entire text.

Marketing Decision Making: A Model Building Approach, Kotler (Holt, Rinehart & Winston, 1971), Entire rext.

Handbook of Marketing Research. Ferber (McGraw-Hill, 1974). Sections I.II.

Research for Marketing Decisions, 3d ed., Green & Tull (Prentice-Hall. 1974). Chs. 1-7.16.

Applications of the Sciences in Marketing Management, Bass, King & Pessemier (Wiley, 1968). Enure

Marketing Management: Analysis, Planning and Control. 2d ed., Kotler (Prentice-Hall 1972). Chs. 11.20. Marketing Planning. Approaches of Selected Companies, Miller (AMA, 1967). Entire ICXI.

- (2) Sales forecasting-Use of models based. Marketing Manageon time series analysis, regression analysis, exponential smoothing, subjective methods, forecasting new products, evaluation of forecasts; appraising forecast accuracy; use of models to simulate market processes
- (3) Use of sales enalysis—By region, product Management of the line, and market; by time period to show trend, market share, and product con- Stanton & Buskirk tribution; identifying effects of changing (Irwin, 1974). Chs. advertising, promotions, price changes. and other variables.
- (4) Marketing strategy formulation— Basic Marketing, 4th Marketing mix decisions on product ed., McCarthy (Irwin, continuation or change, new product 1971). Chs. 2,10-28. introduction, and timing; use of customer and product profitability analysis to evaluate sales emphasis, promotion, and distribution.
- 3 Marketing Operations-Evaluating and sustaining effectiveness of marketing operations including management of the sales force, product promotion, distribution and handling, and understanding government regulations applying to marketing.
  - a. Sales Force Management—Policies and procedures for developing and maintaining an effective selling organization for industrial, manufactured, or agricultural products.
    - (1) Behavioral sciences, psychology of selfing process, inserpersonal relationships. motivation, and communication.
    - (2) Incentive and other compensation systems for sales personnel and circumstances that favor each system.
    - (5) Sales territory and sales support idenufication and provision.
    - (4) Sales staff training and development, including use of in-house and external facilities, content of programs, and selection of persons to undergo training.
  - b. Advertising and Product Promotions-Media advertising, warranties, allowances, customer profiling.
  - c. Product Distribution and Handling— Economics of product handling after manufacture and before sale; getting product prior to delivery; control of product

# Level | References

ment: Analysis, Planning and Control, 2d ed., Kotler (Prentice-Hall, 1972), Ch. 7.

Sales Force, 4th ed.,

#### Level 2 References

Marketing Decision Muhing: A Model Building Approach. Kotler (Holt, Rinehart & Winston, 1971). Parts 111.111

Marketing Management: Analysis, Planning and Control, 2d ed., Kotler (Prentice-Hall, 1972). Ch. 21.

Managerial Analysis in Marketing, Sturdivant Scott Foresman. 1970). Chs. 5-16.

Managing Marketing Prolitability, Simon (AMA, 1969). Enure text.

Sales Force Management, Davis & Webster (Ronald, 1968). Chs. 3.4.5.11.

Management of the Sales Force, 4th ed., Stanton & Buskirk (Irwin, 1974). Chs. 13-15,17.18.

Sales Force Manage-ment, Davis & Webster (Ronald, 1968). Chs. 2,7.

ence Analysis, 2d ed., Thompson (McGraw-Hill, 1973). Parts 5-6. The Dartnell Sales Manager's Hand-

Selling: 4 Managerial

and Behavioral Sci-

book, 11th ed., Aspley. Riso (ed.) (Dartnell, 1968). Chs. 42-44; 53.54. The Dartnell

Sales Manager's Handbook, 11th ed., Aspley. Riso (ed.) (Dartnell, 1968). Chs. 51,52

Management of the Sales Force, 4th ed., Stanton & Buskirk (Irwin, 1974). Chs. 10-12.

3d ed., Engel, Water & Warshaw (Irwin, 1975). Entire text.

The Darinell Sales Manager's Handbook, 11th ed., Aspley. Riso (ed.) (Dartnell, 1968). Chs. 48-50.

Sales Promotion Handbook, 6th ed., Riso (Dartnell, 1973). Entire tert.

- Distribution cost accounting and effectiveness—Evaluation of alternative distribution channels including factory, warehouse and sales fai thity location.
- (2) Inumtory management and control— Control of limished goods and spare parts for servicing; warehouse management.
- (3) Transportation—Moving product to specific locations when required for reasonable cost.
- (4) Product packaging, handling, and storage—As these affect or control the distribution process.
- d. Customer Service—Setting customer service levels; customer service and repair support; warranty and service contract performance.
- e. Government Regulation—Understanding and complying with major regulations affecting competition and pricing policies of the firm. Sheeman Act, Clayton Act, Robinsor Putnam Act, antidumping provision of international commerce.

#### Level 1 References

Physical Distribution Management, rev. ed., Bowersox, Smykay & LaLonde (Macmillan, 1968). Chs. 1,3,4,5,-10,12,13.

Business Logistics: Concepts and Viewpoints, Daniel & Jones (Allyn & Bacon, 1969). Part 4

Introduction to Logutics and Traffic Management, McElhiney & Hilton (Brown, 1968). Entire text.

Business Logistics: Concepts and Viewpoints, Daniel & Jones (Allyn & Bacon, 1969). Part 7.

The Consumer Affairs Department: Organization and Functions, (Conference Board, 1975). Entire text.

Marketing Principles: The Management Process, Enis (Goodyear, 1974). Ch. 5.

#### Level 2 References

The Marketing Channel: A Conceptual Viewpoint, Mallen (Wiley, 1967). Entire text.

Physical Distribution Management, rev. ed., Bowerson, Smykay & Lul ande (Macmillan, 1960). Ch. B.

Physical Distribution Management, rev. ed., Bowerson, Smykay & LaLonde (Macmillan, 1968), Chs. n.7

"Packaging's Role in Physical Distribution," AMA Bulletin No. 77 (AMA, 1966). Entire (ext

Product Senice Management, Gannon (American Marketing Association, 1972). Entire text

Marketing Management: 4nalysis, Planning, and Control, 2d ed., Kotler (Prentice-Hall, 1972). Ch. 22.

# Management science

(Short explanations and references are representative and not exhaustive)

#### Summary Descriptions

- Management Science Problem Solving Frame of Reference—Nature of management science knowledge and processes; use of management science knowledge in problem structuring, identifying acceptable strategies, and developing control benchmarks for performance appraisal; the operations research group; stages in an operations research undertaking
- Management Science Models—The major quantitative skills, models, and techniques that are most useful in a variety of management science applications.
  - a. Statistics and Mathematics—Decision analysis and probability theory, especially as support for models or services in other areas such as industrial quality control, product reliability calculation, and analysis of competitive situations, and service levelevaluation.

### Level | References

Fundamentals of Operations Research. Ackoff & Sasiemi (Wiley, 1968). Chs. 1.2.3.4.17.

Principles of Operations Research. 2d ed., Wagner (Prenuce-Hall, 1975). Chs. 1,22.

### Level 2 References

Introduction to Operations Research, Churchman, Ackolf, Arnolf (Wiles 1957). Chs. 1-7.20.21.22.

- (1) Statistical decision theory-Utility theory; states of nature; alternatives; the alternative; decision rules; the 'best' decision rule; certainty and uncertainty; criteria for decision making under uncertainty.
- (2) Probability theory—Interpretations of uncertainty; basic probability theorems; important probability theorems such as the binomial, normal, Poisson, beta, and gamma distributions and their major characteristics and applications
- (3) Sampling—Sampling distributions; design or selection of single, double, or sequential sampling plans; simple random, stratified, and cluster sampling: interpretation of sampling results.
- (4) Data relationships-Regression analysis; multivariate analysis; design of experiments; hypothesis testing and statistical inference; type I and type II errors; use of cumulative probability distributions to accept or reject a hypothesis.
- (5) Matrix models—Two-person scro-sum games; Markov processes: Leontief (input-output) matrices.
- b. Forecasting-Use of time series to anticipate future values of variables or relationships among variables in order to predict demand, anticipate economic or financial relationships, or to model complex
  - (1) Smoothing-Single, double, and triple exponential amouthing; effect of size of smoothing constant: effect of transients such as step, ramp, or impulse change in time series being analyzed.
  - (2) Time series enalysis—Simple and compound moving averages; dealing with random, seasonal, and cyclical variation: Fourier series analysis; multiple regression analysis.
  - (3) Forecasting standards—If foresses are of No citation at level 1, business financial position.

# Level 1 References

Statistical Analysis for Business Decisions, Peters & Summers (Prentice-Hall, 1968). Ch. 10.

Statustical Analysis for Business Decisions, Peters & Summers (Prentice-Hall, 1968). Chs. 1.2.3.

Statistical Analysis for Business Decisions, Peters & Summers (Prentice-Hall, 1968). Cha. 6.11.

Statistical Sampling for Accounting Informatton, Cyert & Davidson (Prentice-Hall, 1962). Che. 1-10.13.

Statistical Analysis for Business Decisions, Peters & Summers (Prentice-Hall, 1968). Chs. 7,8,9,14,15.

Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967). Ch. 13.

Operations Research, Siemens, Marting, mwood (Free Press, 1973). pp. 12-36.

Operations Forecasting, Abramson (ed.) (American Marketing Association, 1967). Engine sext.

# Level 2 References

Games and Decisions, Luce & Railfa (Wiley, 1957). Chs. 2,13.

Statistical Analysis for Business Decisions. Peters & Summers (Prentice-Hall, 1968). Chs. 4,5,6.

"A Statistical Interpretation of SAP No. 54." Roberts, The Journal of Accountancy, March 1974

"Relating Statistical Sampling to Audit Ob-jectives". Elliott & Rogers. The Journal of Accountancy, July 1972. pp. 16-55

Statistical Analysis for Business Decisions. Peters & Summers (Prentice-Hall 1968) Chs. 12,13,15,17.

Input-Output Economics, Leontief (Oxford, 1966). Chs. 1,2,7,8,11.

Operations Research in Production Planning, Scheduling, and Inventory Control, Johnson & Montgomery (Wiley, 1974), pp. 416-451.

Applied Time Series Analysis for Managerial Forecasting, Nelson (Holden-Duy, 1973). (2ha. 1,2,5,4,5,7,8.

Guidelines for Systems for the Preparation of Financial Forecasts. MAS Guidelines Series No. 3 (AICPA, 1975). Enture text.

- Mathematical Programming and Networks—Network methods of analyzing complex problems, usually involving a large number of variables and relationships among variables; objective is to optimise some weighted sum of variable values.
  - Linear programming—Graphical and simplex methods of volution; postoptimality analysis, formulation of major prototype problems such as diec, warehouse, product mix, transportation, and production scheduling; goal programming; linear programming under uncertainty

Principles of Operations Research, 2d ed., Wagner (Prentice-Hall, 1975). Chs. 2.3.4.5.6,16. Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967). Chs. 5.6.15.

Management Models and Industrial Applications of Linear Programming, vols. 1 & 2, Charnes & Cooper (Wiley, 1961). Entire text.

- (2) Integer programming—When integer programming is preferable to ordinary linear programming and methods such as the cutting plane technique of seeking a solution to integer programming problems.
- (3) Project scheduling and control—Critical path methods: PERT. PERT-CPM and similar control methods; formulation of project scheduling problems and application of resulting control information to achieve desired combination of overall project cost and completion
- (4) Dynamic programming—Principle of recursive optimization; problem formulation; continuous and discrete formulations; major prototype applications such as production wheduling and distribution of effort (maximum of two constraints); probabilistic dynamic programming.
- d. Waiting Line—Queuing theory; queue discipline; service mechanism; arrivals; dynamic behavior and steady state.
- e. Inventory Models—Methods of analyzing relationships between demand and production; concept of inventory policy (order quantity and replenishment point); concept

of service level; determining or estimating

costs of inventory function.

- (1) Basic models—t conomic order quantity (with and without stockouts permitted); bin" method; safety stock; uncertainty in demand rate or order delivery time; sensitivity analysis.
- (2) Basic models implementation—Linking demand forecasting to placing of orders; computer implementation; heutaltic models to meet requirements of specialsituations.

No cuation at level 1.

Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967). Ch. 16.

Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967). pp. 225-235. Fundamentals of Operations Research, Ackott & Sasieni (Wiley, 1968), Ch. 11

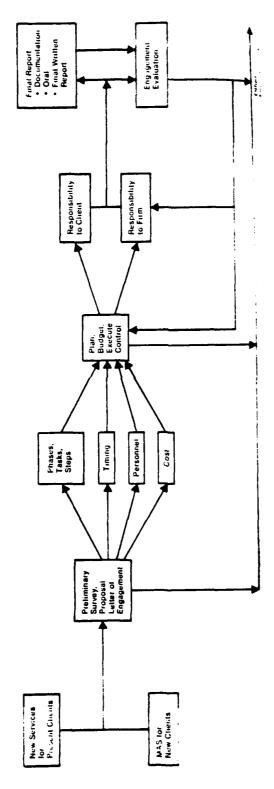
Fundamentals of Operations Research, Ackoff & Sasseni (Wiley, 1968). Ch. 9. Principles of Operations Research, 2d ed., Wagner (Prentice-Hall, 1975). Chs. 8.9.10.

Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967), pp. 285-304. Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967) pp. 304-317, Ch. 11

Introduction to Operations Research, Hillier & Lieberman (Holden-Day, 1967). Ch. 12.

Principles of Operations Research, Wagner (Prentice-Hall, 1975). Ch. 19. Same citation as level 1.

Decision Rules for Inventory Management. Brown (Holt, Rinchart & Winsson, 1967) Enture text.



-MAS Engagement Progression

# APPENDIX C SURVEY QUESTIONNAIRE

Administrative Science Curriculum Naval Postgraduate School Monterey, California, 93940

21 October 1981

Dear Practitioner,

As a student at the Naval Postgraduate School, I have selected Management Advisory Services as a thesis research topic. Specifically, my thesis research will address current Management Advisory Services expansion trends by sole proprietor CPA professional practice units, located within the State of California.

I have enclosed a questionnaire for you to complete and return in the preaddressed envelope provided. It should take you no more than fifteen minutes to fill out the entire questionnaire. All information received will be considered as privileged and treated in a strictly confidential manner. Your help in insuring the questionnaire is returned within 7 days will be appreciated greatly.

Thank you for your participation in this survey. If you or members of your staff would like a summary of the survey results, please check the box on the last page of the questionnaire. The brief summary of findings may be of interest to you. Thank you again.

Sincerely,

David G. Hickman LT, CEC, USN

# SOLE PROPIETOR CPA PRACTITIONER MANAGEMENT ADVISORY SERVICE QUESTIONNAIRE

To assist in a fair interpretation of questions regarding Management Advisory Services (i.e. services other than audits, tax work, maintaining accounting records and preparation of financial statements); it is requested that the following information be provided:

1.	Are you a CPA in the Stateor California?	res
	No Other accreditation (please specify) _	
2.	For what period of time has your firm	(or its
	predecessor) been in business?	
	Less than 5 years(	)
	5 years up to 10(	)
	10 years up to 20(	)
	20 years up to 30(	)
	30 years or more(	)
3.	How many separate offices does your firm mai	ntain?
	](	)
	2 or 3(	)
	4 or more(	)
4.	Approximately, how many individuals in you	ur firm
	(in all offices) render professional servi	ces, of

Management Advisory Services)?

any kind (independent audits, income tax work, or

	1( )
	2-5( )
	6-10( )
	11-25( )
	26-30( )
	31 or more( )
5.	How many individuals within your firm devote more
	than 50% of their productive time to Management
	Advisory Services?
	None( )
	2-5()
	6-10( )
	11-25( )
	26 or more( )
6.	Of those individuals engaged in Management Advisory
	Services, how many are CPAs( )
7.	Below is a list of college majors. Please put "B"
	by your bachelor's degree major. If you received a
	master's degree, put "M" by your master's degree
	major. If you have a doctorate, please put "D" by
	your doctorate field of study.
	no college degree (insert a check mark if applicable)
	business (accounting)
	business (management)
	business (finance)
	business (marketing)

	business(statistic titative methods)	sand (	<b>qu</b> a	ın-
	economics			
	engineering (industr	ial)		
	engineering (other)			
	liberal arts and/or	human	iti	ies
	behavior science (ps	sychol	ogy	?•
	other (please descri	.be)		
8.	Please indicate (roughly) your total pop	ulati	on	of
	client organizations by ownership type:			
	Sole proprietorship0 to	20%	(	)
	21 to	40%	(	)
	41 to	60%	(	)
	61 to	808	(	)
	81 to	100%	(	)
	Partnership0 to	20%	(	)
	21 to	40%	(	)
	41 to	60%	(	)
	61 to	808	(	)
	81 to	100%	(	)
	Publicly owned company to	20%	(	)
	· 21 to	40%	(	)
	41 to	60%	(	)
	61 to	808	(	)
	81 +	100%	,	,

9. Of your total client base, please indicate the relative size of these organizations from the viewpoint of their total operating revenues

\$0 to \$100,000.	0	to	20%	(	)
	21	to	40%	(	)
	41	to	60%	(	)
	61	to	80%	(	)
	81	to	100%	(	)
\$100,000. to \$500,000.	0	to	20%	(	)
	21	to	40%	(	)
	41	to	60%	(	)
	61	to	808	(	)
	81	to	100%	(	)
\$500,000. to \$1,000,000.	0	to	20%	(	)
	21	to	40%	(	)
	41	to	60%	(	)
	61	to	808	(	)
	81	to	100%	(	)
\$1,000,000. to \$10,000,000	0	to	20%	(	)
	21	to	40%	(	)
	41	to	60%	(	)
•	61	to	808	(	)
	81	to	100%	(	)
over \$10,000,000	0	to	20%	(	)
	21	to	40%	(	)
	41	to	60%	(	)

		01 00 000 ( )
		81 to 100% ( )
LO.	Roughly what percentage	ge of your firms total
	professional time is acc	counted for by each of the
	functions below (Percenta	ges should add to 100%).
	Audits	( )
	Taxes	( )
	ing records, prepar	es (maintaining account- ation of financial state-
	Management Advisory	Services( )
	Other Services	( )
11.	Please indicate those co	omponent service areas of
	Management Advisory Servi	ce which your firm becomes
	actively involved with	by placing a check mark
	beside the respective cor	mponent area(s).
	accounts payable accounts receivable	<pre>lease or buy analysis long-range financial planning</pre>
	<pre>acquisitions, mergers, and divestments</pre>	long-range planning management audit
	annual financial plan- ning and budgeting	management controls and report
	applications software development	order entry _organization structure
	billing and credit	and policy
	cash management	payroll and labor dis- tribution
	<pre>clerical systems and forms</pre>	<pre>performance reportingpolicy and procedure</pre>
	<pre>clerical work methods and simplification</pre>	manualsproduct profitability
	computer operations evaluations	property report design and in-
	cost accounting and	stallation
	allocation cost standards	return on investment studies

	singsales forecasting, dedata communications mand plans,	
	economic and feasi- bility studies equipment evaluation financial reporting form design and in- stallation fund accounting goals and objectives studies information flow studies information systems inventory control  software evaluation systems and procedures design, analysis and documentation (EDP and manual) systems and procedures in stallation (EDP and manual) systems test and conversion preparation	
12.	Are Management Advisory Services a separate	
	function and formal department in your firm or are	
	they incidental to and an intregal part of your	
	overall service?	
	Separate function, department( )	
	Part of overall service( )	
13.	3. Please indicate the manner in which your clients	
	are billed for Management Advisory Services	
	performed:	
	As a separate charge( )	
	As part of total service without identification()	
14.	Please indicate how Management Advisory Services	
	have changed as a percentage of your firm's total	
	business over the last five years:	
	0 to 5% increase( )	
	6 to 10%( )	

	11 to 20%()
	21 to 50%( )
	Greater than 50%( )
15.	As a percentage of your firm's total business, at
	what rate do you expect Management Advisory
	Services to grow (assuming you do not anticpate an
	overall decline)?
	0 to 5% increase( )
	6 to 10%()
	11 to 20%( )
	21 to 50%( )
	Greater than 50%( )
16.	On the rating scale below, please circle the
	relative desire of your firm to increase the range
	of Management Advisory Services (i.e. increase the
	variety of services provided to your clients).
	No desire to Extremely high desir increase range of services
	1 2 3 4 5 6 7 8 9 10
17.	On the rating scale below, please circle the
	relative desire of your firm to increase your
	present <u>client</u> <u>base</u> (i.e. number of clients)
	through the offering of Management Advisory
	Services.

	No desire to increase range					Extremely high desire to increase range of services					
	1	2	3	4	5	6	7	8	9	10	
18.	Below	are	liste	d sev	veral	fact	ors w	hich	migl	nt be	
	perce	iveđ	as fac	ctors	that	may	limi	tac	CPA f	irm's	
	abili	ty to	о ехра	and :	into	<u>or</u> p	reser	it Ma	nage	ment	
	Advis	ory S	ervic	es.	Plea	se c	heck	thos	e fa	ctors	
	which	you f	eel w	ould	most	sign	ifica	ntly	limit	your	
	firm's	expa	nsion	of M	AS ac	tivit	ies.				
		Lack	of ade	equat	e int	ernal	staf	E		<del>-</del> ( )	
		Insuf	ficie	nt ca	pital	and	facil	ities		<del>-</del> ()	
			quate ory Se					anage:	ment	<del>-</del> ( )	
		Insuf	ficier	nt st	aff t	raini	ng/edi	ıcati	on	<del>-</del> ( )	
			patibi ssiona								
		Other	reaso	on(s)	(plea	ase s	pecify	7)			
								<del></del>		<del></del>	
			<del></del>							<del></del>	
					<del></del>						

19. Does your firm tend to specialize in certain areas of Management Advisory Services?

Yes ( )

No ( )

_	it the answer to the above question is marked
81	Yes", please briefly indicate below, those areas
c	of your firm's specialization
-	
-	<del></del>
1	In your opinion, is there a problem of recognition
t	by your client organizations of the need for
S	supplemental management advice?
	Yes ( ) No ( ) Sometimes ( )
]	If your firm offers Management Advisory Services
(	(regardless of extent or area(s) of
S	specialization), is it necessary for you to
*	educate" your clients regarding your skills <u>and</u>
t	the benefits that can be derived if they retain
7	your firm for management consultant needs?
	Yes ( ) No ( ) Sometimes ( )
Ι	Does your firm advertize for performance of:
	Independent Audit WorkYes ( ) No ( )
	Tax ServicesYes ( ) No ( )
	Accounting Services (maintaining
	accounting records, preparing
	financial statementsYes ( ) No ( )
	Management Advisory ServicesYes ( ) No ( )
	Other ServicesYes ( ) No ( )

It you answered yes to any of the Items in the
above question; have you found advertizing to be
beneficial from the viewpoint of increasing overall
office workload?
Yes ( ) No ( ) Cannot determine ( )
In your opinion, can advertizing be used as an
effective means of helping a CPA practitioner
expand his or her Management Advisory Service
activities?
Yes ( ) No ( ) Cannot determine ( )
If your clients have Management Advisory Service
needs of a nature which may be unique or beyond
your area of expertise, have or would you refer
these clients to:
Other CPA firms which possess the desired
level of expertise
Yes ( ) No ( ) Sometimes ( )
Other professionals, colleges/universities,
or equipment suppliers
Yes ( ) No ( ) Sometimes ( )
If your firm does not normally refer clients for
Management Advisory needs, please indicate a
general reason for not doing so

28. In your opinion, should sole proprietor CPA firms adequately prepared to handle a wide range of Management Advisory Services or limit their activities to specific specialized areas within the general management field?

Yes () No (), CPAs should be prepared to deal with a wide range of Management Advisory Services.

Yes ( ) No ( ), CPAs should limit their Management Advisory Services to very specific and specialized areas.

29. Based on your education and professional experience, do you feel that CPAs are in a better position to provide Management Advisory Services than any other professional "management consultant"?

Yes ( ) No ( ) Maybe ( )

Thank you for your cooperation. Now that the questionnaire is completed, please place it in the self-addressed envelope provided so it may be returned as promptly as possible.

Please check Yes ( ) if your firm would like a summary of the survey results forwarded to your firm's office. Please indicate your mailing address below.

# LIST OF REFERENCES

- 1. Interview with Professor Larry Kreiser, Department of Accounting, Cleveland State University, on 18 September 1981.
- 2. Wellington, Roger, "Enlarging a Practice Through Management Services," <u>Accountants Encyclopedia</u>, Englewood Cliffs, NJ: Prentice-Hall, 1962.
- 3. Summers, Edward L. and Knight, Kenneth E., <u>Management Advisory Services by CPAs</u>, New York: American Institute of Certified Public Accountants, 1976.
- 4. The Roper Organization, Inc. "A Study of Management Advisory Services Performed by CPA Firms" (Survey), Prepared for the American Institute of Certified Public Accountants, August, 1978.
- 5. American Institute of Certified Public Accountants, "MAS-BOKE CPA Firm Survey", New York, American Institute of Certified Public Accountants, July, 1974.
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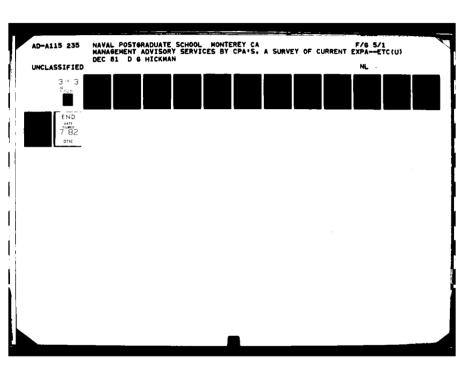
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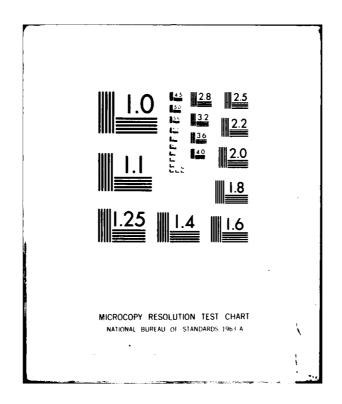
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